

Multi-Institutional Registry of Large Bowel Cancer
in Japan

Vol. 30
Cases treated in 2003-2004

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30号 (Multi-institutional Registry of Large Bowel Cancer in Japan. Vol.30) をお届けします。本号は2003年～2004年の2年間に大腸癌研究会の会員施設において初回治療された大腸悪性腫瘍例の調査報告書です。報告書の前半に臨床病理学的情報、後半に予後情報を解析した結果を収めており、表番号と記載順は前号および前々号とまったく同じです。

2007年に策定されたがん対策推進基本計画の重点課題にがん登録が取り上げられ、行政主導で行われている院内がん登録、地域がん登録のインフラが急速に整備されてきました。一方、本登録のように学術団体が行っているいわゆる臓器がん登録には多くの課題が残されているのが現状です。本登録委員会では、そうした課題の解決策として、登録の管理運用を National Clinical Database に移管することや院内がん登録と相互に連携できるシステム等の方策を模索しているところですが、いずれにしても登録の精度と悉皆性を高めることが焦眉の急です。会員諸氏におかれましては本登録の意義をご理解いただきまして、従来以上に登録に積極的にご参加いただけますようお願い申し上げます。

前号の報告書「Multi-institutional Registry of Large Bowel Cancer in Japan. Vol.29 Cases treated in 2000-2002」の記載に誤りがありました（訂正箇所 Table 71 76ページ）。訂正した集計表を巻末に収載しました。ここにお詫びして訂正させていただきます。

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2012年10月

大腸癌研究会

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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 vermiformis	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 2003-2004

Descriptive data

Table1-1

Histological type, site and sex

Histology	Site	Males	Females	Total
Adenocarcinoma	Colon	4,229	3,411	7,640
	Rectum	3,081	1,781	4,862
	Unkown	94	48	142
	Total	7,404	5,240	12,644
Other malignancies	Colon	35	24	59
	Rectum	59	50	109
	Unkown	4	4	8
	Total	98	78	176
Unkown	Colon	273	215	488
	Rectum	224	120	344
	Unkown	59	32	91
	Total	556	367	923
Grand total		8,058	5,685	13,743

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

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

A total of 241 patients with a malignancy of unknown site was excluded 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	7,640	(617)	7,640
	Rectum	4,862	(258)	4,862
	Total	12,502	(875)	12,502
Other malignancies	Colon	59	(2)	59
	Rectum	109	(7)	109
	Total	168	(9)	168
Unknown	Colon	488	(63)	488
	Rectum	344	(40)	344
	Total	832	(103)	832
Grand total		13,502	(987)	13,502

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

A total of 926 patients with a malignancy of unknown histology (832 patients) and age at treatment (104 patients) was excluded from subsequent analysis.

Table 2

Modality of principal treatment by histology and site

Modality	Adenocarcinoma			Other malignances		
	Colon	Rectum	Total	Colon	Rectum	Total
Surgery	6,914	4,526	11,440	56	95	151
Endoscopic excision	522	198	720	2	7	9
Radiation(RT)	1	3	4	0	0	0
Chemotherapy(CT)	8	10	18	0	0	0
RT+CT	0	3	3	0	0	0
OTH	2	1	3	0	1	1
No treatment	48	25	73	0	4	4
X	92	58	150	0	0	0
Total	7,587	4,824	12,411	58	107	165

Modalities regarded as the most effective and beneficial treatment for cancer.

A total of 286 patients who had surgery after endoscopic treatment were classified in the "Endoscopic excision" in this report.

Adenocarcinoma

I)	All	12,411	cases
II)	Surgery	11,543	cases
III)	Surgical resection	11,465	cases
IV)	Endoscopic excision	720	cases
V)	Surgery after endoscopic excision	286	cases

A total of 286 patients who had surgery after endoscopic treatment were classified in the "Endoscopic excision" in this report, although they should be classified into "Surgery" group. Their information about surgery was described independently in detail (pp.77-83)

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	100-	
V	0	0	0	0	4	7	4	2	0	0	17
C	0	0	6	21	58	131	156	46	5	0	423
A	0	0	6	29	145	289	302	109	11	0	891
T	1	3	8	24	94	176	242	72	2	0	622
D	1	1	10	15	60	130	129	19	0	0	365
S	0	5	21	83	339	664	617	151	5	0	1,885
Rs	0	2	18	48	218	306	274	57	4	0	927
Ra	1	1	21	55	262	290	230	55	1	0	916
Rb	0	5	30	94	296	384	285	62	2	0	1,158
P	0	0	3	2	13	21	10	3	0	0	52
Colon	2	9	51	172	700	1,397	1,450	399	23	0	4,203
Rectum	1	8	72	199	789	1,001	799	177	7	0	3,053
Total	3	17	123	371	1,489	2,398	2,249	576	30	0	7,256

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	100-	
V	0	0	0	3	7	6	6	2	0	0	24
C	0	1	5	11	73	120	154	70	8	0	442
A	0	2	6	21	128	263	297	133	9	0	859
T	0	4	8	22	67	137	166	81	8	0	493
D	0	1	7	20	32	68	82	14	5	0	229
S	0	4	31	88	292	399	373	134	16	0	1,337
Rs	0	3	11	40	148	194	183	66	5	0	650
Ra	0	4	16	41	111	137	114	45	2	0	470
Rb	0	5	17	61	157	168	155	51	6	0	620
P	0	1	1	1	6	8	11	2	1	0	31
Colon	0	12	57	165	599	993	1,078	434	46	0	3,384
Rectum	0	13	45	143	422	507	463	164	14	0	1,771
Total	0	25	102	308	1,021	1,500	1,541	598	60	0	5,155

Table 4-1

Family history of CRC, by site

Site	Family history of CRC			Total
	No	Yes	X	
V	28	3	10	41
C	615	62	188	865
A	1,226	131	393	1,750
T	777	91	247	1,115
D	447	45	102	594
S	2,352	224	646	3,222
Rs	1,146	109	322	1,577
Ra	982	104	300	1,386
Rb	1,301	118	359	1,778
P	63	6	14	83
Colon	5,445	556	1,586	7,587
Rectum	3,492	337	995	4,824
Total	8,937	893	2,581	12,411

Table 4-2

Family history of CRC, by age

Age	Family history of CRC			Total
	No	Yes	X	
<20	3	0	0	3
20-29	24	11	7	42
30-39	157	28	40	225
40-49	494	59	126	679
50-59	1,782	215	513	2,510
60-69	2,852	280	766	3,898
70-79	2,739	250	801	3,790
80-89	824	45	305	1,174
90-99	62	5	23	90
Total	8,937	893	2,581	12,411

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	0	1	0	0	2	3
C	48	8	2	0	4	62
A	104	16	2	1	8	131
T	71	8	5	0	7	91
D	37	5	0	0	3	45
S	188	18	2	2	14	224
Rs	81	14	2	1	11	109
Ra	87	9	0	1	7	104
Rb	97	7	1	2	11	118
P	4	1	0	0	1	6
Colon	448	56	11	3	38	556
Rectum	269	31	3	4	30	337
Total	717	87	14	7	68	893

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	1	0	3
C	16	15	30	3	1	3	68
A	30	39	61	9	3	3	145
T	29	19	41	4	4	7	104
D	12	7	22	0	2	5	48
S	63	57	88	9	9	17	243
Rs	29	32	42	1	7	10	121
Ra	30	27	41	4	1	10	113
Rb	44	33	30	3	6	13	129
P	3	1	1	0	0	2	7
Colon	151	138	242	25	20	35	611
Rectum	106	93	114	8	14	35	370
Total	257	231	356	33	34	70	981

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	24	7	10	41
C	440	205	220	865
A	959	349	442	1,750
T	624	214	277	1,115
D	343	133	118	594
S	1,829	653	740	3,222
Rs	880	318	379	1,577
Ra	734	300	352	1,386
Rb	961	403	414	1,778
P	51	19	13	83
Colon	4,219	1,561	1,807	7,587
Rectum	2,626	1,040	1,158	4,824
Total	6,845	2,601	2,965	12,411

Table 5-2

Family history of cancers other than CRC, by age

Age	Family member with other cancers			Total
	No	Yes	X	
<20	2	1	0	3
20-29	22	12	8	42
30-39	136	52	37	225
40-49	355	179	145	679
50-59	1,320	596	594	2,510
60-69	2,171	831	896	3,898
70-79	2,117	757	916	3,790
80-89	669	162	343	1,174
90-99	53	11	26	90
Total	6,845	2,601	2,965	12,411

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	
V	7	0	0	0	7
C	182	13	6	4	205
A	310	31	5	3	349
T	192	15	5	2	214
D	125	6	1	1	133
S	590	51	7	5	653
Rs	293	18	5	2	318
Ra	268	23	8	1	300
Rb	359	32	9	3	403
P	11	5	3	0	19
Colon	1,406	116	24	15	1,561
Rectum	931	78	25	6	1,040
Total	2,337	194	49	21	2,601

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	4	1	0	0	0	1	6
C	84	68	81	10	10	9	262
A	132	99	152	14	18	20	435
T	83	58	87	7	14	7	256
D	44	42	61	3	14	5	169
S	240	195	233	24	52	42	786
Rs	112	90	125	5	26	28	386
Ra	120	86	114	12	17	29	378
Rb	177	109	126	9	53	28	502
P	7	3	10	1	0	1	22
Colon	587	463	614	58	108	84	1,914
Rectum	416	288	375	27	96	86	1,288
F							202

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	Adeno- ma	Adenom- atosis	Ulcer- ative colitis	Crohn's disease	Radiat- ion colitis	Anal fistula	OTH	X	
V	32	1	0	0	0	0	1	0	7	41
C	652	22	1	2	0	0	3	37	149	866
A	1,280	61	8	2	0	0	9	92	308	1,760
T	816	49	4	4	0	0	6	71	169	1,119
D	456	18	0	1	0	0	3	31	86	595
S	2,395	87	8	4	1	0	32	135	575	3,237
Rs	1,211	29	6	6	2	0	11	61	254	1,580
Ra	1,022	32	2	3	0	0	21	56	254	1,390
Rb	1,246	30	2	6	3	0	19	90	385	1,781
P	56	4	0	0	1	0	5	1	17	84
Colon	5,631	238	21	13	1	0	54	366	1,294	7,618
Rectum	3,535	95	10	15	6	0	56	208	910	4,835
Total	9,166	333	31	28	7	0	110	574	2,204	12,453

Table 6-2

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

Site	Past history									Total
	None	Adeno- ma	Adenom- atosis	Ulcer- ative colitis	Crohn's disease	Radiat- ion colitis	Anal fistula	OTH	X	
<20	2	1	0	0	0	0	0	0	0	3
20-29	26	2	3	2	1	0	0	0	8	42
30-39	145	2	9	4	1	0	2	5	58	226
40-49	505	10	2	3	0	0	2	20	138	680
50-59	1,795	49	4	9	3	0	29	109	519	2,517
60-69	2,832	107	5	4	0	0	41	210	712	3,911
70-79	2,873	123	6	4	1	0	30	187	582	3,806
80-89	910	37	2	2	1	0	6	41	178	1,177
90-99	78	2	0	0	0	0	0	2	9	91
Total	9,166	333	31	28	7	0	110	574	2,204	12,453

Table 7-1

Measurement of serum carcinoembryonic antigen (CEA), preoperative

Site	Serum CEA			Total
	Examined	Not examined	X	
V	30	4	7	41
C	704	49	112	865
A	1,399	146	205	1,750
T	886	76	153	1,115
D	485	41	68	594
S	2,536	296	390	3,222
Rs	1,307	93	177	1,577
Ra	1,118	84	184	1,386
Rb	1,454	85	239	1,778
P	68	2	13	83
Colon	6,040	612	935	7,587
Rectum	3,947	264	613	4,824
Total	9,987	876	1,548	12,411

Table 7-2

Serum CEA value, preoperative

Site	Serum CEA value					Total
	Normal	<2	<4	<8	>=8	
V	13	4	5	3	5	30
C	406	101	60	31	106	704
A	844	200	126	93	136	1,399
T	599	130	53	37	67	886
D	284	81	46	24	50	485
S	1,503	413	207	134	279	2,536
Rs	768	208	125	72	134	1,307
Ra	618	203	110	77	110	1,118
Rb	868	242	167	79	98	1,454
P	41	12	6	4	5	68
Colon	3,649	929	497	322	643	6,040
Rectum	2,295	665	408	232	347	3,947
Total	5,944	1,594	905	554	990	9,987

Table 8-1

Multiple primary cancers, by sex

Multiple primary cancers	Males	Females	Total
No	5,964	4,438	10,402
Synchronous	414	142	556
Metachronous	576	376	952
Synchronous and metachronous	40	10	50
X	262	189	451
Total	7,256	5,155	12,411

Table 8-2

Synchronous multiple primary cancers (multi-answers)

Organ	Synchronous cancer		Total
	Males	Females	
Oral cavity	2	1	3
Pharynx and larynx	6	2	8
Esophagus	25	4	29
Stomach	172	40	212
Small intestine	11	3	14
Liver	53	18	71
Biliary tree	10	10	20
Pancreas	7	4	11
Lung	29	8	37
Breast	0	12	12
Uterine cervix	0	1	1
Uterine corpus	1	4	5
Uterus, NOS	0	1	1
Vagina	0	0	0
Ovary	0	11	11
Prostate	37	0	37
Kidney	16	6	22
Bladder	12	1	13
Hematopoietic system	7	4	11
Bone and soft tissue	0	0	0
Nervous system	15	10	25
Thyroid	1	4	5
Skin	2	1	3
OTH	9	5	14
X	22	1	23
Total	437	151	588

Table 8-3

Metachronous multiple primary cancers (multi-answers)

Organ	Metachronous cancer		Total
	Males	Females	
Oral cavity	11	2	13
Pharynx and larynx	27	3	30
Esophagus	30	3	33
Stomach	198	70	268
Small intestine	1	1	2
Liver	33	15	48
Biliary tree	7	5	12
Pancreas	15	8	23
Lung	74	22	96
Breast	5	109	114
Uterine cervix	1	24	25
Uterine corpus	1	39	40
Uterus, NOS	0	16	16
Vagina	0	0	0
Ovary	0	15	15
Prostate	85	1	86
Kidney	18	10	28
Bladder	39	8	47
Hematopoietic system	10	9	19
Bone and soft tissue	1	1	2
Nervous system	14	11	25
Thyroid	5	17	22
Skin	5	5	10
OTH	23	7	30
X	0	0	0
Total	603	401	1,004

Table 8-4

Number of organs of multiple primary cancers

Multiple primary cancers	Number of organs					Total
	1	2	3	4	X	
Synchronous	476	50	7	0	23	556
Metachronous	813	106	4	1	28	952
Synchronous and metachronous	6	32	10	1	1	50
X	2	0	0	0	449	451
Total	1,297	188	21	2	501	2,009

Table 9-1

Metachronous multiple CRC, by sex

Sex	Metachronous CRC					Total
	No	Early cancer	Advanced cancer	Both	X	
Males	6,757	69	100	19	311	7,256
Females	4,824	37	76	12	206	5,155
Total	11,581	106	176	31	517	12,411

Table 9-2

Metachronous multiple CRC, by age

Age	Metachronous CRC			Total
	Early cancer	Advanced cancer	Both	
20-29	0	0	0	0
30-39	1	1	0	2
40-49	0	7	1	8
50-59	15	20	4	39
60-69	33	52	15	100
70-79	44	68	9	121
80-89	11	25	1	37
90-100	2	3	1	6
Total	106	176	31	313

Table 9-3

Metachronous multiple CRC, by site

Site	Metachronous CRC			Total
	Early cancer	Advanced cancer	Both	
V	0	1	0	1
C	7	21	5	33
A	23	40	7	70
T	15	36	5	56
D	9	16	1	26
S	29	29	3	61
Rs	3	8	3	14
Ra	6	12	3	21
Rb	14	12	4	30
P	0	1	0	1
Colon	83	143	21	247
Rectum	23	33	10	66
Total	106	176	31	313

Table 9-4

Metachronous multiple CRC, by number of cancers

Number of cancers	Metachronous CRC			Total
	Early cancer	Advanced cancer	Both	
1	84	146	2	232
2	7	17	23	47
3	2	4	2	8
4	0	1	0	1
X	13	8	4	25
Total	106	176	31	313

Table 9-5

Metachronous multiple CRC, by site of metachronous cancer

Site	Metachronous CRC			Total
	Early cancer	Advanced cancer	Both	
Colon	63	98	12	173
Rectum	16	51	2	69
Both	2	10	13	25
Anal canal	0	2	0	
X	25	15	4	44
Total	106	176	31	313

Table 10-1

Number of synchronous multiple CRC, by site

Site	Number of cancers								Total
	1	2	3	4	5	6	>7	X	
V	36	0	0	0	0	0	0	4	40
C	739	5	16	1	0	0	0	63	824
A	1,457	12	35	7	0	0	1	114	1,626
T	923	4	22	2	2	1	0	90	1,044
D	484	2	15	1	1	0	0	42	545
S	2,596	17	58	8	3	2	0	212	2,896
Rs	1,359	3	24	1	0	0	0	99	1,486
Ra	1,175	5	23	2	2	0	1	104	1,312
Rb	1,546	7	27	4	0	1	0	102	1,687
P	79	0	0	0	0	0	0	4	83
Colon	6,235	40	146	19	6	3	1	525	6,975
Rectum	4,159	15	74	7	2	1	1	309	4,568
Total	10,394	55	220	26	8	4	2	834	11,543

Table 10-2

Number of synchronous multiple CRC, by age

Site	Number of cancers								Total
	1	2	3	4	5	6	>7	X	
<20	3	0	0	0	0	0	0	0	3
20-29	37	0	1	0	0	0	0	3	41
30-39	194	0	2	2	0	1	1	12	212
40-49	570	1	7	1	1	0	0	29	609
50-59	2,139	6	46	5	1	0	1	125	2,323
60-69	3,277	17	73	7	2	2	0	251	3,629
70-79	3,109	24	65	9	4	1	0	314	3,526
80-89	988	5	24	2	0	0	0	93	1,112
90-99	77	2	2	0	0	0	0	7	88
Total	10,394	55	220	26	8	4	2	834	11,543

Table 10-3

Number of synchronous multiple CRC, males, by age

Site	Number of cancers								Total
	1	2	3	4	5	6	>7	X	
<20	3	0	0	0	0	0	0	0	3
20-29	13	0	1	0	0	0	0	2	16
30-39	109	0	1	1	0	0	0	7	118
40-49	310	0	6	1	0	0	0	17	334
50-59	1,245	6	31	4	1	0	1	77	1,365
60-69	1,973	10	55	5	2	2	0	165	2,212
70-79	1,794	21	46	8	4	0	0	214	2,087
80-89	467	4	15	1	0	0	0	54	541
90-99	26	1	1	0	0	0	0	1	29
Total	5,937	42	156	20	7	2	1	537	6,702

Table 10-4

Number of synchronous multiple CRC, females, by age

Site	Number of cancers								Total
	1	2	3	4	5	6	>7	X	
20-29	24	0	0	0	0	0	0	1	25
30-39	85	0	1	1	0	1	1	5	94
40-49	260	1	1	0	1	0	0	12	275
50-59	894	0	15	1	0	0	0	48	958
60-69	1,304	7	18	2	0	0	0	86	1,417
70-79	1,315	3	19	1	0	1	0	100	1,439
80-89	521	1	9	1	0	0	0	39	571
90-99	51	1	1	0	0	0	0	6	59
Total	4,454	13	64	6	1	2	1	297	4,838

Table 11-1

Macroscopic type of tumor, by site

Site	Macroscopic type								Total
	Type 0	Type 1	Type 2	Type 3	Type 4	Type 5	OTH	X	
V	2	5	13	3	1	13	1	2	40
C	114	123	460	80	4	19	3	21	824
A	169	141	1,084	166	6	15	3	42	1,626
T	153	81	677	90	6	7	0	30	1,044
D	59	39	365	53	2	6	2	19	545
S	323	247	1,946	244	19	28	8	81	2,896
Rs	117	134	1,031	129	6	28	3	38	1,486
Ra	102	124	900	112	6	16	8	44	1,312
Rb	223	151	1,066	147	11	31	8	50	1,687
P	10	10	33	9	2	12	1	6	83
Colon	820	636	4,545	636	38	88	17	195	6,975
Rectum	452	419	3,030	397	25	87	20	138	4,568
Total	1,272	1,055	7,575	1,033	63	175	37	333	11,543

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										Total
	Ip	lsp	ls	Ila	Ila+Ilc	Ilb	Ilc	Ilc+Ila	OTH	X	
V	0	0	1	1	0	0	0	0	0	0	2
C	6	13	18	35	9	1	12	0	6	14	114
A	10	26	23	50	21	4	12	4	0	19	169
T	9	20	13	33	33	2	28	4	5	6	153
D	5	14	7	11	8	0	9	0	0	5	59
S	56	72	43	50	40	0	20	1	9	32	323
Rs	9	42	17	20	19	0	3	1	0	6	117
Ra	1	20	20	23	17	1	3	0	0	17	102
Rb	12	48	45	52	22	0	3	3	8	30	223
P	1	1	1	0	1	0	1	0	0	5	10
Colon	86	145	105	180	111	7	81	9	20	76	820
Rectum	23	111	83	95	59	1	10	4	8	58	452
Total	109	256	188	275	170	8	91	13	28	134	1,272

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

Type 0	Protruded type
Ip	Pedunculated type
lsp	Semipedunculated type
ls	Sessile type
Type 0 II	Superficial type
Ila	Superficial elevated type
Ilb	Superficial flat type
Ilc	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							Total
	Dorsal or post.	Ventral or ant.	Medial or right	Lateral or left	Circular	OTH	X	
V	8	2	0	0	16	9	5	40
C	132	139	41	31	233	150	98	824
A	325	229	69	77	487	269	170	1,626
T	182	124	39	25	375	185	114	1,044
D	94	63	20	16	219	75	58	545
S	534	402	107	72	946	530	305	2,896
Rs	260	256	51	55	474	241	149	1,486
Ra	216	278	77	79	353	172	137	1,312
Rb	376	323	145	184	261	196	202	1,687
P	15	16	3	4	10	18	17	83
Colon	1,275	959	276	221	2,276	1,218	750	6,975
Rectum	867	873	276	322	1,098	627	505	4,568
Total	2,142	1,832	552	543	3,374	1,845	1,255	11,543

Dorsal mesenteric side

Ventral side opposite to the mesenterium

post. posterior side

ant. anterior side

Table 13-1

Tumor locaion, by circumferential division of the bowel wall

Site	Circumferential occupancy of the bowel wall						X	Total
	<1/3	<1/2	<2/3	Semi-circular	Circular	OTH		
V	6	1	4	4	17	6	2	40
C	160	134	94	98	243	14	81	824
A	326	227	187	235	488	24	139	1,626
T	236	142	83	99	360	8	116	1,044
D	92	69	51	70	213	3	47	545
S	544	402	330	349	979	43	249	2,896
Rs	260	208	192	243	458	18	107	1,486
Ra	231	218	187	193	339	18	126	1,312
Rb	439	296	227	248	266	18	193	1,687
P	15	20	7	8	12	7	14	83
Colon	1,364	975	749	855	2,300	98	634	6,975
Rectum	945	742	613	692	1,075	61	440	4,568
Total	2,309	1,717	1,362	1,547	3,375	159	1,074	11,543

Table 13-2

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

Site	Tumor size (mm)						X	Total
	≤ 20	21-40	41-60	61-80	81-100	>100		
V	4	5	7	6	5	2	11	40
C	84	236	221	107	38	26	112	824
A	157	460	420	248	96	56	189	1,626
T	168	361	239	80	44	24	128	1,044
D	68	167	168	56	11	5	70	545
S	383	917	826	276	81	38	375	2,896
Rs	131	437	470	191	62	27	168	1,486
Ra	96	360	401	191	58	24	182	1,312
Rb	190	494	449	232	76	36	210	1,687
P	7	27	22	7	2	2	16	83
Colon	864	2,146	1,881	773	275	151	885	6,975
Rectum	424	1,318	1,342	621	198	89	576	4,568
Total	1,288	3,464	3,223	1,394	473	240	1,461	11,543

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	162	177	69	19	6	3	71	507
sm	576	308	54	22	3	5	148	1,116
mp	307	777	232	38	8	16	168	1,546
ss/a1	181	1,500	1,661	683	194	96	635	4,950
se/a2	45	597	986	464	163	60	277	2,592
si/ai	10	86	189	153	96	57	92	683
X	7	19	32	15	3	3	70	149
Total	1,288	3,464	3,223	1,394	473	240	1,461	11,543

Table 14-1

Metastasis, peritoneum

Site	Peritoneal metastasis					Total
	P0	P1	P2	P3	PX	
V	34	0	2	4	0	40
C	712	34	22	34	22	824
A	1,484	40	23	49	30	1,626
T	977	20	7	20	20	1,044
D	505	13	6	14	7	545
S	2,703	56	35	50	52	2,896
Rs	1,421	27	12	11	15	1,486
Ra	1,244	19	7	7	35	1,312
Rb	1,617	12	3	5	50	1,687
P	78	0	0	0	5	83
Colon	6,415	163	95	171	131	6,975
Rectum	4,360	58	22	23	105	4,568
Total	10,775	221	117	194	236	11,543

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	38	0	1	1	0	40
C	695	40	22	48	19	824
A	1,404	62	31	102	27	1,626
T	896	42	21	63	22	1,044
D	470	24	10	32	9	545
S	2,454	112	81	190	59	2,896
Rs	1,283	63	34	88	18	1,486
Ra	1,135	53	30	58	36	1,312
Rb	1,523	50	29	45	40	1,687
P	75	3	1	1	3	83
Colon	5,957	280	166	436	136	6,975
Rectum	4,016	169	94	192	97	4,568
Total	9,973	449	260	628	233	11,543

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	38	0	0	0	2	40
C	745	14	8	8	49	824
A	1,500	26	7	20	73	1,626
T	975	11	3	5	50	1,044
D	511	9	0	6	19	545
S	2,686	37	7	23	143	2,896
Rs	1,386	16	8	16	60	1,486
Ra	1,197	17	6	20	72	1,312
Rb	1,547	27	6	20	87	1,687
P	78	0	1	0	4	83
Colon	6,455	97	25	62	336	6,975
Rectum	4,208	60	21	56	223	4,568
Total	10,663	157	46	118	559	11,543

LM0 No pulmonary metastasis

LM1 Metastasis only to one lobe

LM2 Metastasis to multiple lobes but not meeting "M3"

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	Distant metastasis								Total
	M(-)	Bone	Brain	Adrenal	Skin	Virchow	OTH	X	
V	26	0	0	0	0	0	0	14	40
C	753	2	1	0	1	2	24	41	824
A	1,533	1	0	2	0	7	30	53	1,626
T	991	0	0	1	0	4	13	35	1,044
D	488	2	0	0	0	0	11	44	545
S	2,738	3	0	2	1	2	40	110	2,896
Rs	1,401	8	1	2	0	2	17	55	1,486
Ra	1,216	6	0	2	0	0	19	69	1,312
Rb	1,605	11	2	0	0	1	13	55	1,687
P	75	0	0	0	0	0	3	5	83
Colon	6,529	8	1	5	2	15	118	297	6,975
Rectum	4,297	25	3	4	0	3	52	184	4,568
Total	10,826	33	4	9	2	18	170	481	11,543

M(-) No distant metastasis
 Adrenal adrenal gland
 Virchow Virchow's lymph node

Table 15

Histological classification, by site

Site	Histological classification						Total
	w/d	m/d	p/d	muc	sig	NOS	
V	10	12	8	9	0	1	40
C	394	332	47	47	0	4	824
A	686	754	107	73	3	3	1,626
T	486	462	58	31	2	5	1,044
D	236	251	39	17	1	1	545
S	1,397	1,386	57	48	3	5	2,896
Rs	656	749	48	28	1	4	1,486
Ra	545	682	51	29	2	3	1,312
Rb	755	843	34	47	4	4	1,687
P	32	38	5	6	1	1	83
Colon	3,209	3,197	316	225	9	19	6,975
Rectum	1,988	2,312	138	110	8	12	4,568
Total	5,197	5,509	454	335	17	31	11,543

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	2	2	0	11	10	14	1	40
C	40	82	76	223	248	137	18	824
A	57	132	152	580	491	165	49	1,626
T	43	113	128	308	338	92	22	1,044
D	19	56	54	163	182	61	10	545
S	60	298	292	934	899	329	84	2,896
Rs	23	118	154	492	500	149	50	1,486
Ra	18	112	188	455	378	106	55	1,312
Rb	84	173	327	444	441	148	70	1,687
P	7	3	13	20	15	14	11	83
Colon	221	683	702	2,219	2,168	798	184	6,975
Rectum	132	406	682	1,411	1,334	417	186	4,568
Total	353	1,089	1,384	3,630	3,502	1,215	370	11,543

Intestine 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

Intestine without serosa, macroscopic

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
A1	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	3	2	2	9	13	10	1	40
C	63	69	105	311	187	83	6	824
A	85	125	156	778	375	96	11	1,626
T	70	115	109	450	228	61	11	1,044
D	24	49	60	260	117	34	1	545
S	79	307	351	1,384	570	170	35	2,896
Rs	37	126	165	724	327	76	31	1,486
Ra	35	113	205	569	302	62	26	1,312
Rb	104	203	373	446	456	83	22	1,687
P	7	7	20	19	17	8	5	83
Colon	324	667	783	3,192	1,490	454	65	6,975
Rectum	183	449	763	1,758	1,102	229	84	4,568
Total	507	1,116	1,546	4,950	2,592	683	149	11,543

Intestine 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

Intestine without serosa, histological

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	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	5	1	1	0	0	3	10
C	64	9	1	0	0	9	83
A	73	8	2	1	0	12	96
T	38	7	1	0	1	14	61
D	23	2	0	0	0	9	34
S	119	21	2	0	0	28	170
Rs	54	9	0	1	0	12	76
Ra	39	10	3	0	0	10	62
Rb	57	12	0	1	0	13	83
P	4	1	1	0	0	2	8
Colon	322	48	7	1	1	75	454
Rectum	154	32	4	2	0	37	229
Total	476	80	11	3	1	112	683

Table 18-1

Lymph node metastasis, macroscopic, by site

Site	Lymph node metastasis						Total
	N0	N1	N2	N3	N4	NX	
V	20	10	6	4	0	0	40
C	336	214	179	45	21	29	824
A	699	471	288	55	59	54	1,626
T	537	278	118	40	32	39	1,044
D	269	175	64	12	8	17	545
S	1,466	853	375	41	73	88	2,896
Rs	688	509	173	30	38	48	1,486
Ra	578	485	142	23	25	59	1,312
Rb	889	376	214	79	34	95	1,687
P	41	18	8	4	2	10	83
Colon	3,327	2,001	1,030	197	193	227	6,975
Rectum	2,196	1,388	537	136	99	212	4,568
Total	5,523	3,389	1,567	333	292	439	11,543

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	21	8	6	4	0	1	40
C	411	171	112	38	11	81	824
A	882	363	160	52	42	127	1,626
T	606	208	96	28	18	88	1,044
D	298	143	39	9	7	49	545
S	1,619	654	296	30	47	250	2,896
Rs	754	424	133	33	23	119	1,486
Ra	632	412	148	23	13	84	1,312
Rb	875	312	217	77	29	177	1,687
P	37	10	8	6	3	19	83
Colon	3,837	1,547	709	161	125	596	6,975
Rectum	2,298	1,158	506	139	68	399	4,568
Total	6,135	2,705	1,215	300	193	995	11,543

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	442	2	1	1	1	60	507
sm	932	79	18	0	0	87	1,116
mp	1,105	248	66	8	3	116	1,546
ss/a1	2,480	1,369	534	91	58	418	4,950
se/a2	878	801	503	142	96	172	2,592
si/ai	258	184	83	48	33	77	683
X	40	22	10	10	2	65	149
Total	6,135	2,705	1,215	300	193	995	11,543

Table 18-4

Lymph node metastasis, histological, by DI, colon

DI	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
m	303	2	0	0	1	18	324
sm	573	38	11	0	0	45	667
mp	573	122	25	3	3	57	783
ss/a1	1,651	813	347	57	38	286	3,192
se/a2	543	436	270	76	58	107	1,490
si/ai	175	126	53	24	23	53	454
x	19	10	3	1	2	30	65
Total	3,837	1,547	709	161	125	596	6,975

Table 18-5

Lymph node metastasis, histological, by DI, rectum

DI	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
m	139	0	1	1	0	42	183
sm	359	41	7	0	0	42	449
mp	532	126	41	5	0	59	763
ss/a1	829	556	187	34	20	132	1,758
se/a2	335	365	233	66	38	65	1,102
si/ai	83	58	30	24	10	24	229
x	21	12	7	9	0	35	84
Total	2,298	1,158	506	139	68	399	4,568

Table 19-1

Lymphatic invasion, by site

Site	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
V	15	12	8	4	0	1	40
C	314	277	120	56	0	57	824
A	606	598	236	106	2	78	1,626
T	420	358	157	55	1	53	1,044
D	195	199	90	29	0	32	545
S	1,117	1,063	408	149	4	155	2,896
Rs	525	534	241	87	0	99	1,486
Ra	476	476	219	71	2	68	1,312
Rb	697	541	258	69	0	122	1,687
P	36	24	11	6	1	5	83
Colon	2,667	2,507	1,019	399	7	376	6,975
Rectum	1,734	1,575	729	233	3	294	4,568
Total	4,401	4,082	1,748	632	10	670	11,543

Table 19-2

Lymphatic invasion, by DI, colon

DI	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
m	303	5	1	0	0	15	324
sm	449	159	21	2	0	36	667
mp	391	279	68	9	0	36	783
ss/a1	1142	1289	432	147	4	178	3,192
se/a2	285	593	379	185	2	46	1,490
si/ai	86	168	114	52	1	33	454
X	11	14	4	4	0	32	65
Total	2,667	2,507	1,019	399	7	376	6,975

Table 19-3

Lymphatic invasion, by DI, rectum

DI	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
m	172	5	0	0	0	6	183
sm	293	96	24	0	0	36	449
mp	366	286	59	7	2	43	763
ss/a1	601	660	305	82	1	109	1,758
se/a2	235	429	268	128	0	42	1,102
si/ai	52	83	58	14	0	22	229
X	15	16	15	2	0	36	84
Total	1,734	1,575	729	233	3	294	4,568

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	17	14	5	2	0	2	40
C	364	246	113	45	1	55	824
A	622	568	258	90	2	86	1,626
T	414	327	170	75	1	57	1,044
D	214	191	80	27	1	32	545
S	1140	937	449	208	6	156	2,896
Rs	504	519	243	118	1	101	1,486
Ra	445	389	282	119	2	75	1,312
Rb	601	523	305	128	0	130	1,687
P	38	17	16	6	1	5	83
Colon	2,771	2,283	1,075	447	11	388	6,975
Rectum	1,588	1,448	846	371	4	311	4,568
Total	4,359	3,731	1,921	818	15	699	11,543

Table 20-2

Venous invasion, by DI, colon

DI	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
m	308	1	0	0	0	15	324
sm	509	98	22	0	2	36	667
mp	440	244	51	12	0	36	783
ss/a1	1140	1153	508	201	5	185	3,192
se/a2	276	622	370	170	2	50	1,490
si/ai	79	158	121	60	2	34	454
X	19	7	3	4	0	32	65
Total	2,771	2,283	1,075	447	11	388	6,975

Table 20-3

Venous invasion, by DI, rectum

DI	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
m	174	2	0	0	0	7	183
sm	300	91	17	2	0	39	449
mp	369	256	77	14	2	45	763
ss/a1	486	633	376	150	1	112	1,758
se/a2	182	388	312	172	1	47	1,102
si/ai	49	67	60	28	0	25	229
X	28	11	4	5	0	36	84
Total	1,588	1,448	846	371	4	311	4,568

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	38	0	2	40
C	732	0	92	824
A	1,429	3	194	1,626
T	936	1	107	1,044
D	494	0	51	545
S	2,543	1	352	2,896
Rs	1,328	0	158	1,486
Ra	1,147	2	163	1,312
Rb	1,412	4	271	1,687
P	69	0	14	83
Colon	6,172	5	798	6,975
Rectum	3,956	6	606	4,568
Total	10,128	11	1,404	11,543

Table 21-2

Tumor invasion of surgical margin, macroscopic, by site

Site	Distal cut end (AW)			Total
	AW(-)	AW(+)	X	
V	38	0	2	40
C	731	0	93	824
A	1,425	3	198	1,626
T	936	0	108	1,044
D	496	0	49	545
S	2,536	3	357	2,896
Rs	1,326	0	160	1,486
Ra	1,141	6	165	1,312
Rb	1,395	13	279	1,687
P	68	1	14	83
Colon	6,162	6	807	6,975
Rectum	3,930	20	618	4,568
Total	10,092	26	1,425	11,543

Table 21-3

Tumor invasion of surgical margin, macroscopic, by site

Site	Surgical cut end (EW)			Total
	EW(-)	EW(+)	X	
V	28	6	6	40
C	679	24	121	824
A	1,314	30	282	1,626
T	840	26	178	1,044
D	459	12	74	545
S	2,302	51	543	2,896
Rs	1,180	48	258	1,486
Ra	1,031	35	246	1,312
Rb	1,294	43	350	1,687
P	63	2	18	83
Colon	5,622	149	1,204	6,975
Rectum	3,568	128	872	4,568
Total	9,190	277	2,076	11,543

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	5	14	14	7	58
C	145	258	201	220	1,081
A	169	493	548	416	2,263
T	161	289	300	294	1,541
D	107	238	102	98	780
S	554	1,068	588	686	4,253
Rs	152	470	527	337	2,084
Ra	78	263	616	355	1,873
Rb	128	166	937	456	2,589
P	8	0	47	28	100
Colon	1,141	2,360	1,753	1,721	6,975
Rectum	366	899	2,127	1,176	4,568
Total	1,507	3,259	3,880	2,897	11,543

Table 21-5

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	3	13	17	7	40
C	108	219	280	217	824
A	216	452	544	414	1,626
T	203	357	191	293	1,044
D	94	234	119	98	545
S	722	1,075	421	678	2,896
Total	1,346	2,350	1,572	1,707	6,975

Table 21-6

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

Site	Distance between tumor and distal cut end (mm)							X	Total
	<=10	11-20	21-30	31-40	41-50	51-60	>60		
Rs	51	135	202	211	206	163	215	303	1,486
Ra	106	225	269	179	98	49	59	327	1,312
Rb	280	384	237	136	89	49	75	437	1,687
P	13	13	12	6	1	0	1	37	83
Total	450	757	720	532	394	261	350	1,104	4,568

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)				Total
	<=50	51-100	>100	X	
<=50	600	347	186	8	1,141
51-100	477	1,243	631	9	2,360
>100	262	741	741	9	1,753
X	7	19	14	1,681	1,721
Total	1,346	2,350	1,572	1,707	6,975

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)								Total
	<=10	11-20	21-30	31-40	41-50	51-60	>60	X	
<=50	132	47	42	37	28	15	51	14	366
51-100	74	156	184	152	113	97	118	5	899
>100	219	512	458	334	246	145	177	36	2,127
X	25	42	36	9	7	4	4	1,049	1,176
Total	450	757	720	532	394	261	350	1,104	4,568

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	38	0	2	40
C	760	0	64	824
A	1,492	0	134	1,626
T	967	2	75	1,044
D	494	1	50	545
S	2,624	3	269	2,896
Rs	1,358	1	127	1,486
Ra	1,185	2	125	1,312
Rb	1,461	11	215	1,687
P	71	0	12	83
Colon	6,375	6	594	6,975
Rectum	4,075	14	479	4,568
Total	10,450	20	1,073	11,543

Table 21-10

Tumor invasion of surgical margin, histological, by site

Site	Distal cut end (aw)			Total
	aw(-)	aw(+)	X	
V	38	0	2	40
C	759	0	65	824
A	1,487	1	138	1,626
T	964	1	79	1,044
D	494	0	51	545
S	2,615	5	276	2,896
Rs	1,356	3	127	1,486
Ra	1,177	6	129	1,312
Rb	1,436	30	221	1,687
P	70	1	12	83
Colon	6,357	7	611	6,975
Rectum	4,039	40	489	4,568
Total	10,396	47	1,100	11,543

Table 21-11

Tumor invasion of surgical margin, histological, by site

Site	Surgical cut end (ew)			Total
	ew(-)	ew(+)	X	
V	30	5	5	40
C	728	32	64	824
A	1,441	57	128	1,626
T	905	26	113	1,044
D	476	19	50	545
S	2,523	66	307	2,896
Rs	1,288	51	147	1,486
Ra	1,130	47	135	1,312
Rb	1,456	71	160	1,687
P	71	5	7	83
Colon	6,103	205	667	6,975
Rectum	3,945	174	449	4,568
Total	10,048	379	1,116	11,543

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(-)	10,373	37	40	10,450
ow(+)	11	8	1	20
X	12	2	1,059	1,073
Total	10,396	47	1,100	11,543

Table 21-13

Tumor invasion of surgical margin, histological

Proximal cut end	Surgical cut end			Total
	ew(-)	ew(+)	X	
ow(-)	9,270	352	828	10,450
ow(+)	9	4	7	20
X	769	23	281	1,073
Total	10,048	379	1,116	11,543

Table 21-14

Tumor invasion of surgical margin, histological

Distal cut end	Surgical cut end			Total
	ew(-)	ew(+)	X	
aw(-)	9,239	344	813	10,396
aw(+)	30	11	6	47
X	779	24	297	1,100
Total	10,048	379	1,116	11,543

Table 22-1

Histological examination of peritoneal metastasis, by site

Site	Histological or cytological examination			X	Total
	Not examined	Positive histology	Positive cytology		
V	11	3	2	24	40
C	438	45	73	268	824
A	869	66	156	535	1,626
T	613	48	77	306	1,044
D	288	34	31	192	545
S	1,628	110	193	965	2,896
Rs	816	39	101	530	1,486
Ra	696	30	80	506	1,312
Rb	898	43	79	667	1,687
P	38	0	2	43	83
Colon	3,847	306	532	2,290	6,975
Rectum	2,448	112	262	1,746	4,568
Total	6,295	418	794	4,036	11,543

Table 22-2

Histological examination of peritoneal metastasis

Peritoneal metastasis	Histological or cytological examination			X	Total
	Not examined	Positive histology	Positive cytology		
P0	6,081	234	694	3,766	10,775
P1	61	65	50	45	221
P2	34	47	13	23	117
P3	46	68	30	50	194
PX	73	4	7	152	236
Total	6,295	418	794	4,036	11,543

Table 23

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

Site	Additional and/or adjuvant therapy								OTH	X	Total
	Radiation				Chemotherapy						
	None	pre	intra	post	pre	intra	post				
V	15	0	0	0	0	0	14	0	2	31	
C	458	0	0	2	7	2	246	1	25	741	
A	888	0	0	7	13	3	556	7	46	1,520	
T	609	0	0	5	11	1	311	2	32	971	
D	300	0	0	0	6	0	172	0	15	493	
S	1,590	2	1	12	16	2	945	19	91	2,678	
Rs	790	5	0	13	14	1	518	3	40	1,384	
Ra	638	14	1	10	19	2	502	4	35	1,225	
Rb	895	89	7	39	66	0	510	4	50	1,660	
P	38	5	0	8	4	0	28	1	3	87	
Colon	3,860	2	1	26	53	8	2,244	29	211	6,434	
Rectum	2,361	113	8	70	103	3	1,558	12	128	4,356	
Total	6,221	115	9	96	156	11	3,802	41	339	10,790	

pre preoperative therapy
intra intraoperative therapy
post postoperative therapy

Table 24-1

Operative procedures, patients without tumor resection, by site

Site	Explora- tory	Enterostomy			Left colon	Bypass	OTH	Total
		Ileum	Right colon	Transve- rse				
V	1	2	0	0	0	2	0	5
C	5	1	0	0	0	6	0	12
A	0	0	1	2	0	3	0	6
T	1	0	0	1	0	0	0	2
D	2	2	0	5	2	0	0	11
S	3	0	0	0	6	0	1	10
Rs	3	0	1	1	7	1	0	13
Ra	1	0	0	4	11	0	2	18
Rb	0	0	0	1	0	0	0	1
Colon	12	5	1	8	8	11	1	46
Rectum	4	0	1	6	18	1	2	32
Total	16	5	2	14	26	12	3	78

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

	Laparoscopic surgery (LS)					
		Yes				
Site	No	LS only	LS assisted	OTH	X	Total
V	25	0	1	0	14	40
C	614	44	65	8	88	819
A	1,217	90	98	19	190	1,614
T	781	60	72	12	113	1,038
D	384	36	33	9	81	543
S	2,096	204	232	45	308	2,885
Rs	1,111	83	91	26	165	1,476
Ra	1,001	41	66	6	185	1,299
Rb	1,408	25	31	5	200	1,669
P	72	1	2	0	7	82
Colon	5,117	434	501	93	794	6,939
Rectum	3,592	150	190	37	557	4,526
Total	8,709	584	691	130	1,351	11,465

Table 24-3

Operative procedures

Polypectomy	trans-abdominal	4
	trans-anal	12
	trans-sacral	0
	trans-sphincteric	0
Tumorectomy	trans-abdominal	8
	trans-anal	152
	trans-sacral	38
	trans-sphincteric	30
Segmental resection	colon	378
	rectum	41
Appendectomy		1
Ileocecal resection		652
Ascending colectomy		87
Right hemicolectomy		1,923
Transverse colectomy		506
Descending colectomy		168
Left hemicolectomy		357
Sigmoidectomy		2,207
Subtotal colectomy		24
Total colectomy		35
Sphincter preserving operation	high anterior resection	1,008
	low anterior resection	2,477
	posterior resection	4
	invagination method	1
	pull through procedure	34
	abdominosacral resection	32
Hartmann's operation		310
Amputation of the rectum	abdominoperineal	669
	abdominosacral	13
Total pelvic exenteration		68
Total resection of the colon and rectum		
	with ileostomy	12
	with ileoanal anastomosis	19
OTH		96
X		99
Total		11,465

Table 25-1

Lymph node dissection, paraintestinal, by site

Site	Lymph node dissection, paraintestinal nodes				Total
	D0	D1	D2	X	
V	1	9	14	16	40
C	39	194	463	123	819
A	57	337	981	239	1,614
T	59	303	555	121	1,038
D	14	133	295	101	543
S	104	783	1,577	421	2,885
Rs	56	364	855	201	1,476
Ra	73	300	739	187	1,299
Rb	141	317	924	287	1,669
P	8	17	35	22	82
Colon	274	1,759	3,885	1,021	6,939
Rectum	278	998	2,553	697	4,526
Total	552	2,757	6,438	1,718	11,465

Table 25-2

Lymph node dissection, mesenteric, by site

Site	Lymph node dissection, mesenteric nodes				Total
	D0	D2	D3	X	
V	5	9	12	14	40
C	61	229	427	102	819
A	97	439	874	204	1,614
T	118	426	361	133	1,038
D	52	202	203	86	543
S	243	985	1,269	388	2,885
Rs	94	451	746	185	1,476
Ra	85	399	635	180	1,299
Rb	182	453	764	270	1,669
P	14	17	31	20	82
Colon	576	2,290	3,146	927	6,939
Rectum	375	1,320	2,176	655	4,526
Total	951	3,610	5,322	1,582	11,465

Table 25-3

Lymph node dissection, rectum, lateral, by site

Site	Lymph node dissection, lateral nodes				Total
	D0	D2	D3	X	
Rs	796	35	34	611	1,476
Ra	646	55	109	489	1,299
Rb	610	144	393	522	1,669
P	24	9	16	33	82
Total	2,076	243	552	1,655	4,526

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	X	
V	24	8	1	1	1	0	5	40
C	627	90	23	3	2	1	73	819
A	1,308	132	34	5	0	1	134	1,614
T	841	94	18	6	2	0	77	1,038
D	446	45	8	2	0	1	41	543
S	2,278	277	61	22	8	0	239	2,885
Rs	1,175	135	45	6	1	0	114	1,476
Ra	1,049	84	33	11	2	0	120	1,299
Rb	1,381	103	18	24	2	0	141	1,669
P	59	10	2	2	1	0	8	82
Colon	5,524	646	145	39	13	3	569	6,939
Rectum	3,664	332	98	43	6	0	383	4,526
Total	9,188	978	243	82	19	3	952	11,465

Table 26-2

Combined resection, by site (multi-answers)

Organ	Site										Total
	V	C	A	T	D	S	Rs	Ra	Rb	P	
Abdominal wall	1	40	43	15	7	45	4	0	3	0	158
Pelvic wall	0	1	0	0	1	5	1	1	5	2	16
Uterus	0	3	3	0	2	37	29	33	30	3	140
Ovary & tube	1	15	19	6	2	61	45	23	21	2	195
Vagina	0	0	0	0	1	2	3	10	39	8	63
Seminal vesicle	0	2	0	0	0	2	5	17	24	2	52
Prostate	0	1	0	0	0	9	7	9	32	4	62
Bladder	0	4	0	1	1	105	51	20	22	3	207
Ureter	3	2	2	1	1	14	9	12	3	0	47
Stomach	0	12	10	21	2	10	13	4	4	0	76
Duodenum	0	1	13	6	0	2	0	1	1	0	24
Small intestine	3	21	18	19	11	63	20	5	4	0	164
Colon	2	13	13	12	3	21	23	11	7	0	105
Rectum	2	5	6	5	4	23	5	5	3	0	58
Liver	0	18	43	26	14	58	21	22	19	1	222
Omentum	2	13	11	10	6	12	7	1	1	0	63
Remote organ	0	2	1	4	3	2	4	1	1	1	19
OTH	2	39	77	52	28	133	50	35	52	1	469
X	0	1	1	0	1	2	1	3	0	1	10
Total	16	193	260	178	87	606	298	213	271	28	2,150

Table 27-1

Treatment for liver metastasis, by site

Site	Resection of liver metastasis			Total
	Complete	Incomplete	X	
C	14	2	3	19
A	32	4	2	38
T	21	4	1	26
D	10	2	0	12
S	70	6	7	83
Rs	32	2	5	39
Ra	23	3	4	30
Rb	22	6	3	31
P	1	0	0	1
Colon	147	18	13	178
Rectum	78	11	12	101
Total	225	29	25	279

Table 27-2

Treatment for liver metastasis

Liver metastasis	Resection of liver metastasis			Total
	Complete	Incomplete	X	
H1	144	7	8	159
H2	50	7	3	60
H3	28	15	14	57
HX	3	0	0	3
Total	225	29	25	279

Table 27-3

Treatment for liver metastasis, by site

Site	Treatment modality other than hepatectomy			Total
	Ethanol	MCT	OTH	
C	0	4	7	11
A	3	3	19	25
T	0	3	12	15
D	0	1	7	8
S	0	6	33	39
Rs	0	3	7	10
Ra	0	4	12	16
Rb	0	0	11	11
Colon	3	17	78	98
Rectum	0	7	30	37
Total	3	24	108	135

Table 27-4

Treatment for liver metastasis (multi-answers)

Liver metastasis	Treatment modality other than hepatectomy			Total
	Ethanol	MCT	OTH	
H1	1	13	29	43
H2	0	6	19	25
H3	2	4	60	66
HX	0	1	0	1
Total	3	24	108	135

Ethanol Ethanol injection therapy

MCT Microwave coagulation therapy

Table 28-1

Curability of surgical resection, macroscopic, by site

Site	Curability of surgical resection					Total
	Cur A	Cur B	Cur C	Not resected	X	
V	26	3	10	0	1	40
C	586	61	147	3	27	824
A	1,180	129	220	11	86	1,626
T	785	92	118	4	45	1,044
D	413	40	76	0	16	545
S	2,162	215	378	10	131	2,896
Rs	1,097	117	187	6	79	1,486
Ra	998	84	148	9	73	1,312
Rb	1,297	116	153	10	111	1,687
P	56	11	6	0	10	83
Colon	5,152	540	949	28	306	6,975
Rectum	3,448	328	494	25	273	4,568
Total	8,600	868	1,443	53	579	11,543

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					Total
	cur A	cur B	cur C	Not resected	X	
V	25	4	8	0	3	40
C	590	58	150	4	22	824
A	1,204	121	227	10	64	1,626
T	804	77	129	5	29	1,044
D	417	42	75	1	10	545
S	2,197	196	402	9	92	2,896
Rs	1,122	120	182	5	57	1,486
Ra	1,007	95	150	10	50	1,312
Rb	1,320	126	161	12	68	1,687
P	56	10	10	0	7	83
Colon	5,237	498	991	29	220	6,975
Rectum	3,505	351	503	27	182	4,568
Total	8,742	849	1,494	56	402	11,543

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	3	2	13	6	7	8	1	40
C	63	143	216	143	75	179	5	824
A	82	241	557	304	131	309	2	1,626
T	70	199	334	190	69	176	6	1,044
D	24	96	176	121	29	98	1	545
S	77	547	930	574	226	527	15	2,896
Rs	35	239	461	376	104	260	11	1,486
Ra	35	246	352	349	117	203	10	1,312
Rb	103	476	385	293	228	190	12	1,687
P	7	22	17	11	12	9	5	83
Colon	319	1,228	2,226	1,338	537	1,297	30	6,975
Rectum	180	983	1,215	1,029	461	662	38	4,568
Total	499	2,211	3,441	2,367	998	1,959	68	11,543

Table 29-2

Histological stage, by curability of surgical resection

Curability	Histological stage							Total
	0	I	II	IIIa	IIIb	IV	X	
cur A	485	2,140	3,168	2,070	791	48	40	8,742
cur B	4	17	118	136	127	444	3	849
cur C	1	3	31	66	41	1,350	2	1,494
Not resected	0	0	2	1	1	39	13	56
X	9	51	122	94	38	78	10	402
Total	499	2,211	3,441	2,367	998	1,959	68	11,543

Table 30

Accompanied lesion, by site (multi-answers)

Site	Accompanied lesions							X	Total
	Adenoma	Adenom- atosis	Ulcera- tive colitis	Crohn's disease	Radiat- ion colitis	Anal fistula	OTH		
V	3	0	0	0	0	0	1	10	14
C	86	5	0	0	0	0	21	162	274
A	177	17	4	0	0	0	30	319	547
T	123	9	3	0	0	0	17	161	313
D	52	3	1	0	0	0	7	96	159
S	252	19	3	0	0	1	56	567	898
Rs	112	7	5	1	1	1	18	306	451
Ra	113	9	5	0	1	1	26	287	442
Rb	129	3	4	1	1	2	28	383	551
P	4	0	0	0	0	5	0	24	33
Colon	693	53	11	0	0	1	132	1,315	2,205
Rectum	358	19	14	2	3	9	72	1,000	1,477
Total	1,051	72	25	2	3	10	204	2,315	3,682

Table 31

Site and number of cancers

Site	Number of cancers					Total
	1	2	3	4	>=5	
V	0	0	0	0	1	1
C	25	0	0	0	4	29
A	91	5	1	0	9	106
T	45	1	0	0	6	52
D	37	1	0	0	2	40
S	265	10	1	0	18	294
Rs	69	2	0	0	5	76
Ra	46	1	0	0	4	51
Rb	58	2	0	0	11	71
Colon	463	17	2	0	40	522
Rectum	173	5	0	0	20	198
Total	636	22	2	0	60	720

Table 32-1

Endoscopic excision

Site	Modality of endoscopic resection			Total
	Electric cautery	OTH	X	
V	1	0	0	1
C	24	0	5	29
A	94	0	12	106
T	46	0	6	52
D	38	0	2	40
S	260	1	33	294
Rs	68	0	8	76
Ra	44	0	7	51
Rb	59	0	12	71
Colon	463	1	58	522
Rectum	171	0	27	198
Total	634	1	85	720

Table 32-2

Endoscopic excision, evaluation of the excision

Site	Excision				Total
	Complete	Incomplete	Undecidable	X	
V	1	0	0	0	1
C	21	1	3	4	29
A	69	11	16	10	106
T	39	4	4	5	52
D	30	6	1	3	40
S	221	41	12	20	294
Rs	62	5	4	5	76
Ra	39	6	2	4	51
Rb	50	5	5	11	71
Colon	381	63	36	42	522
Rectum	151	16	11	20	198
Total	532	79	47	62	720

Table 32-3

Endoscopic excision, evaluation of the retrieval of resected specimens

Site	Specimens				Total
	Complete	Incomplete	No retrieval	X	
V	1	0	0	0	1
C	24	1	0	4	29
A	94	2	0	10	106
T	44	1	0	7	52
D	35	2	0	3	40
S	264	8	2	20	294
Rs	70	1	0	5	76
Ra	45	1	0	5	51
Rb	59	1	0	11	71
Colon	462	14	2	44	522
Rectum	174	3	0	21	198
Total	636	17	2	65	720

Table 33-1

Gross appearance, by site

Site	Gross appearance									X	Total
	lp	lsp	ls	lla	lla+llc	llb	llc	llc+lla	OTH		
V	1	0	0	0	0	0	0	0	0	0	1
C	2	6	0	10	1	0	1	0	5	4	29
A	15	38	4	10	6	1	1	0	13	18	106
T	4	13	5	11	2	0	2	0	7	8	52
D	6	7	7	8	3	0	1	0	1	7	40
S	104	78	27	22	4	0	4	1	11	43	294
Rs	13	25	10	9	1	0	0	0	2	16	76
Ra	3	25	5	7	1	0	2	0	2	6	51
Rb	4	18	7	12	4	0	2	0	7	17	71
Colon	132	142	43	61	16	1	9	1	37	80	522
Rectum	20	68	22	28	6	0	4	0	11	39	198
Total	152	210	65	89	22	1	13	1	48	119	720

Table 33-2

Gross appearance, by DI

DI	Gross appearance									X	Total
	lp	lsp	ls	lla	lla+llc	llb	llc	llc+lla	OTH		
m	101	116	33	56	4	0	5	0	36	14	365
sm	45	84	29	31	18	1	8	1	7	50	274
mp	0	1	0	1	0	0	0	0	0	2	4
>ss/al	0	0	0	0	0	0	0	0	0	1	1
X	6	9	3	1	0	0	0	0	5	52	76
Total	0	1	1	0	0	0	0	0	0	48	720
Depth of submucosal invasion											
slight	7	11	9	10	3	0	3	1	3	5	52
massive	29	52	14	14	14	1	4	0	0	30	158
X	9	21	6	7	1	0	1	0	4	15	64

Table 34
DI, by site

Site	DI						Grade of sm invasion		
	m	sm	mp	>ss/al	X	Total	slight	massive	NOS
V	1	0	0	0	0	1	0	0	0
C	17	8	0	0	4	29	2	4	2
A	60	30	1	0	15	106	5	20	5
T	21	23	1	0	7	52	9	10	4
D	25	13	0	0	2	40	2	8	3
S	140	128	2	1	23	294	22	74	32
Rs	39	30	0	0	7	76	5	18	7
Ra	27	18	0	0	6	51	3	10	5
Rb	35	24	0	0	12	71	4	14	6
Colon	264	202	4	1	51	522	40	116	46
Rectum	101	72	0	0	25	198	12	42	18
Total	365	274	4	1	76	720	52	158	64

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	10	3	9	7	29
A	37	26	26	17	106
T	19	9	17	7	52
D	13	7	10	10	40
S	114	64	68	48	294
Rs	36	10	15	15	76
Ra	23	12	9	7	51
Rb	25	14	18	14	71
Colon	194	109	130	89	522
Rectum	84	36	42	36	198
Total	278	145	172	125	720

Table 35-2

Histological classification, by site

Site	Histological classification						Total
	w/d	m/d	p/d	muc	sig	NOS	
V	1	0	0	0	0	0	1
C	22	3	0	0	0	4	29
A	57	16	1	0	0	32	106
T	35	7	0	0	0	10	52
D	27	3	1	0	0	9	40
S	207	27	0	1	0	59	294
Rs	52	13	0	0	0	11	76
Ra	32	7	0	0	0	12	51
Rb	46	13	0	0	0	12	71
Colon	349	56	2	1	0	114	522
Rectum	130	33	0	0	0	35	198
Total	479	89	2	1	0	149	720

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						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
slight	38	4	1	1	0	8	52
massive	84	34	4	0	2	34	158
NOS	28	7	3	1	6	19	64
Total	150	45	8	2	8	61	274

Table 37

Venous invasion and sm invasion

sm invasion	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
slight	40	4	0	0	0	8	52
massive	91	24	9	0	1	33	158
NOS	32	7	1	0	3	21	64
Total	163	35	10	0	4	62	274

Table 38-1

Tumor size, by gross appearance

Size (mm)	Gross appearance										Total
	lp	lsp	ls	lla	lla+llc	llb	llc	llc+lla	OTH	X	
<=5	1	9	3	2	0	0	0	0	1	2	18
6-10	52	93	26	21	9	0	4	0	7	13	225
11-15	37	47	14	18	5	0	5	0	11	11	148
16-20	28	25	7	12	4	1	0	0	10	8	95
21-30	20	11	4	14	2	0	1	0	6	7	65
31-40	2	3	1	9	0	0	0	0	4	0	19
>40	0	1	0	5	0	0	1	0	3	1	11
X	12	21	10	8	2	0	2	1	6	77	139
Total	152	210	65	89	22	1	13	1	48	119	720

Table 38-2

Tumor size, by DI

Size (mm)	DI					Total
	m	sm	mp	ss/al	X	
<=5	9	6	0	0	3	18
6-10	141	71	1	0	12	225
11-15	77	65	1	0	5	148
16-20	53	40	0	0	2	95
21-30	34	30	0	0	1	65
31-40	10	9	0	0	0	19
>40	7	3	0	0	1	11
X	34	50	2	1	52	139
Total	365	274	4	1	76	720

Table 39

Cut end of the specimen, mucosal and submucosal

DI									Total
m-ce	m	sm			mp	>ss/al		X	
		sm-ce							
		—	+	X		—	X		
—	298	136	27	2	1	0	1	6	471
+	24	8	16	2	0	0	0	0	50
X	43	26	22	35	0	3	0	70	199
Total	365	170	65	39	1	3	1	76	720

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 40-1
Metastasis, by site

Site	Any metastasis			Total
	No	Yes	X	
V	1	0	0	1
C	15	0	14	29
A	55	0	51	106
T	34	1	17	52
D	21	0	19	40
S	189	6	99	294
Rs	52	1	23	76
Ra	33	0	18	51
Rb	39	1	31	71
Colon	315	7	200	522
Rectum	124	2	72	198
Total	439	9	272	720

Table 40-2
Metastasis, by DI

DI	Any metastasis			Total
	No	Yes	X	
m	221	0	144	365
sm	207	8	59	274
mp	4	0	0	4
>ss/a1	0	0	1	1
X	7	1	68	76
Total	439	9	272	720

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	14	3	3	9	29
A	53	7	1	45	106
T	31	2	1	18	52
D	21	1	1	17	40
S	187	10	10	87	294
Rs	45	5	3	23	76
Ra	31	1	1	18	51
Rb	40	2	2	27	71
Colon	307	23	16	176	522
Rectum	116	8	6	68	198
Total	423	31	22	244	720

Table 41-2

Curability of endoscopic excision, by DI

DI	Evaluation of colorectal endoscopy				Total
	cur A	cur B	cur C	X	
m	212	14	3	136	365
sm	201	17	18	38	274
mp	3	0	1	0	4
>ss/al	1	0	0	0	1
X	6	0	0	70	76
Total	423	31	22	244	720

Table 42-1
Additional surgery

	Additional surgical resection		Total
	Yes	No	
Site			
V	1	0	1
C	11	18	29
A	37	69	106
T	21	31	52
D	15	25	40
S	125	169	294
Rs	28	48	76
Ra	20	31	51
Rb	28	43	71
DI			
m	13	352	365
sm	216	58	274
mp	3	1	4
>ss/al	0	1	1
X	54	22	76
sm invasion (sm cancers)			
slight	23	29	52
massive	141	17	158
NOS	52	12	64
Histology, Adenomatous component			
Carcinoma in adenoma	50	228	278
Carcinoma with adenomatous component	54	91	145
Carcinoma without adenomatous component	74	98	172
X	108	17	125
Histological classification			
w/d	203	276	479
m/d	75	14	89
p/d	2	0	2
muc	0	1	1
NOS	6	143	149

Table 42-2

Additional surgery

	Additional surgical resection		Total
	Yes	No	
m-ce			
-	136	335	471
+	27	23	50
X	123	76	199
sm-ce (sm cancers)			
-	119	51	170
+	60	5	65
X	37	2	39
ly (sm cancers)			
ly0	108	42	150
ly1	43	2	45
ly2	8	0	8
3	2	0	2
ly(+)	7	1	8
X	48	13	61
v (sm cancers)			
v0	122	41	163
v1	32	3	35
v2	10	0	10
v(+)	3	1	4
X	49	13	62
Evaluation of colorectal endoscopy			
cur A	186	237	423
cur B	15	16	31
cur C	19	3	22
X	66	178	244

Table 43

Laparoscopic surgery as additional surgery

Site	Laparoscopic surgery (LS)					Total
	No	Yes			X	
		LS only	LS assisted	OTH		
V	1	0	0	0	0	1
C	7	0	3	0	1	11
A	17	7	8	5	0	37
T	12	4	3	1	1	21
D	8	1	4	1	1	15
S	51	12	44	14	4	125
Rs	14	4	8	0	2	28
Ra	13	1	6	0	0	20
Rb	18	2	2	1	5	28
Colon	96	24	62	21	7	210
Rectum	45	7	16	1	7	76
Total	141	31	78	22	14	286

Table 44

Residual cancer in surgically resected specimen, additional surgery

Site	Residual cancer in the resected specimen			Total
	No	Yes	X	
V	1	0	0	1
C	5	3	3	11
A	21	5	11	37
T	12	2	7	21
D	10	2	3	15
S	87	13	25	125
Rs	14	3	11	28
Ra	13	0	7	20
Rb	16	1	11	28
Colon	136	25	49	210
Rectum	43	4	29	76
Total	179	29	78	286

Table 45

DI, by site, additional surgery

Site	DI						X	Total
	m	sm	mp	ss/a1	se/a2	si/ai		
V	1	0	0	0	0	0	0	1
C	3	5	0	0	1	0	2	11
A	1	26	0	2	3	1	4	37
T	2	15	2	1	0	0	1	21
D	2	8	1	0	1	0	3	15
S	10	91	3	5	0	0	16	125
Rs	1	18	1	2	0	1	5	28
Ra	1	10	0	1	3	0	5	20
Rb	1	13	5	2	2	1	4	28
Colon	19	145	6	8	5	1	26	210
Rectum	3	41	6	5	5	2	14	76
Total	22	186	12	13	10	3	40	286

Table 46-1

Lymph node metastasis, macroscopic, by site, additional surgery

Site	Lymph node metastasis						Total
	N0	N1	N2	N3	N4	NX	
V	1	0	0	0	0	0	1
C	9	0	1	0	0	1	11
A	31	1	1	2	1	1	37
T	20	1	0	0	0	0	21
D	14	0	0	1	0	0	15
S	119	2	2	0	0	2	125
Rs	24	1	0	0	0	3	28
Ra	17	2	0	0	0	1	20
Rb	22	5	1	0	0	0	28
Colon	194	4	4	3	1	4	210
Rectum	63	8	1	0	0	4	76
Total	257	12	5	3	1	8	286

Table 46-2

Lymph node metastasis, histological, by site, additional surgery

Site	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
V	0	0	0	0	0	1	1
C	9	1	1	0	0	0	11
A	30	1	1	1	1	3	37
T	18	1	1	0	0	1	21
D	13	0	0	1	0	1	15
S	106	9	4	0	0	6	125
Rs	20	4	0	0	0	4	28
Ra	16	2	0	0	0	2	20
Rb	19	5	1	0	0	3	28
Colon	176	12	7	2	1	12	210
Rectum	55	11	1	0	0	9	76
Total	231	23	8	2	1	21	286

Table 47

Lymphatic invasion in surgically resected specimen, additional surgery

Site	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
V	0	0	0	0	0	1	1
C	6	2	0	0	0	3	11
A	22	4	3	1	0	7	37
T	12	3	1	0	1	4	21
D	12	0	0	1	0	2	15
S	73	16	5	1	1	29	125
Rs	15	4	0	1	0	8	28
Ra	12	4	0	0	0	4	20
Rb	14	5	4	1	1	3	28
Colon	125	25	9	3	2	46	210
Rectum	41	13	4	2	1	15	76
Total	166	38	13	5	3	61	286

Table 48

Venous invasion in surgically resected specimen, additional surgery

Site	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
V	0	0	0	0	0	1	1
C	7	1	0	0	0	3	11
A	21	6	3	0	0	7	37
T	17	0	0	0	0	4	21
D	10	1	2	0	0	2	15
S	76	16	3	0	0	30	125
Rs	14	5	1	0	1	7	28
Ra	11	3	1	1	0	4	20
Rb	10	12	2	0	0	4	28
Colon	131	24	8	0	0	47	210
Rectum	35	20	4	1	1	15	76
Total	166	44	12	1	1	62	286

Table 49

Curability of surgical resection, additional surgery

Site	Curability				Total
	curA	curB	curC	X	
V	1	0	0	0	1
C	9	0	1	1	11
A	33	2	1	1	37
T	18	1	0	2	21
D	13	0	1	1	15
S	117	0	1	7	125
Rs	20	1	2	5	28
Ra	16	2	0	2	20
Rb	24	1	0	3	28
Colon	191	3	4	12	210
Rectum	60	4	2	10	76
Total	251	7	6	22	286

Table 50

Histological stage, additional surgery

Site	Histological stage							Total
	0	I	II	IIIa	IIIb	IV	X	
V	1	0	0	0	0	0	0	1
C	3	6	0	1	0	1	0	11
A	1	28	2	2	1	3	0	37
T	2	17	0	1	0	1	0	21
D	2	12	0	0	0	1	0	15
S	9	98	4	9	4	1	0	125
Rs	1	19	1	5	0	2	0	28
Ra	1	13	3	2	0	0	1	20
Rb	1	18	2	6	1	0	0	28
Colon	18	161	6	13	5	7	0	210
Rectum	3	50	6	13	1	2	1	76
Total	21	211	12	26	6	9	1	286

Table 51

Operative procedures, additional surgery

Operative procedure	Site									Total
	V	C	A	T	D	S	Rs	Ra	Rb	
Trans-anal resection	0	0	0	0	0	0	0	0	3	3
Trans-sphencteric resection	0	0	0	1	0	0	0	0	0	1
Partial colectomy	0	0	1	3	2	3	0	0	1	10
Partial rectal resection	0	0	0	0	0	0	0	0	2	2
Appendectomy	1	0	0	0	0	0	0	0	0	1
Ileocecal resection	0	10	7	0	0	0	0	0	0	17
Ascending colectomy	0	0	3	0	1	0	0	0	0	4
Right colectomy	0	1	22	6	1	1	0	0	0	31
Transverse colectomy	0	0	0	10	0	0	0	0	0	10
Descending colectomy	0	0	0	0	7	0	0	0	0	7
Left colectomy	0	0	0	0	2	0	0	0	0	2
Sigmoidectomy	0	0	0	0	1	105	1	0	0	107
HAR	0	0	0	0	0	5	15	3	0	23
LAR	0	0	0	0	0	2	9	16	17	44
Abdomiosacral resection	0	0	0	0	0	0	0	0	1	1
Hartmann	0	0	0	0	0	0	1	1	0	2
APR	0	0	0	0	0	0	1	0	2	3
OTH	0	0	0	0	0	0	0	0	2	2
X	0	0	4	1	1	9	1	0	0	16
Total	1	11	37	21	15	125	28	20	28	286

Malignant neoplasms other than adenocarcinoma

A total of 165 patients with malignancies other than adenocarcinoma was classified into 3 groups.

I)	All	165cases
II)	Surgery	156cases
III)	Endoscopic excision	9cases

Abbreviations of histological typing in this report.

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

Table 52-1

Age-specific incidence, males

Site	Age								Total
	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	
V	1	0	1	0	1	0	0	0	3
C	0	2	0	2	2	1	0	0	7
A	0	0	0	1	0	3	2	0	6
T	0	0	0	0	0	0	1	0	1
D	0	0	0	1	2	1	0	0	4
S	1	0	3	3	2	5	0	0	14
Rs	0	0	2	0	0	0	0	0	2
Ra	0	1	0	0	4	2	2	0	9
Rb	1	2	12	9	5	6	1	0	36
P	0	1	1	4	2	3	0	0	11
Colon	2	2	4	7	7	10	3	0	35
Rectum	1	4	15	13	11	11	3	0	58
Total	3	6	19	20	18	21	6	0	93

Table 52-2

Age-specific incidence, females

Site	Age								Total
	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	
V	0	0	0	0	0	0	1	0	1
C	0	0	0	1	1	2	0	0	4
A	0	0	1	0	2	2	2	0	7
T	0	0	0	0	0	3	1	0	4
D	0	0	0	0	0	0	0	0	0
S	0	0	1	1	2	3	0	0	7
Rs	0	0	2	1	1	0	0	0	4
Ra	0	0	2	3	0	1	0	0	6
Rb	0	1	1	9	6	6	0	0	23
P	1	0	1	5	2	3	3	1	16
Colon	0	0	2	2	5	10	4	0	23
Rectum	1	1	6	18	9	10	3	1	49
Total	1	1	8	20	14	20	7	1	72

Table 53

Histological typing, by site

Site	Histology											Total
	sq	as	ud	bsl	OEM	cd	MM	LMS	LMB	NHL	OTH	
V	0	0	0	0	1	0	0	1	0	0	2	4
C	0	1	2	0	0	1	0	0	0	7	0	11
A	0	3	2	0	0	0	0	0	0	1	7	13
T	0	0	1	0	1	0	0	0	0	0	3	5
D	2	0	0	0	0	0	0	0	0	0	1	3
S	3	3	2	0	2	0	0	1	0	0	9	20
Rs	0	0	0	0	3	3	0	0	0	0	0	6
Ra	1	0	0	0	3	5	0	0	0	1	3	13
Rb	2	1	2	0	0	32	2	0	0	1	15	55
P	10	2	1	1	3	0	4	0	4	0	1	26
Colon	5	7	7	0	4	1	0	2	0	8	22	56
Rectum	13	3	3	1	9	40	6	0	4	2	19	100
Total	18	10	10	1	13	41	6	2	4	10	41	156

Table 54

Modality of principal treatment

Treatment	Histology											Total
	sq	as	ud	bsl	OEM	cd	MM	LMS	LMS	NHL	OTH	
None	0	0	0	0	0	0	0	0	4	0	0	4
Surgery	18	10	10	1	13	41	6	2	0	9	41	151
OTH	0	0	0	0	0	0	0	0	0	1	0	1
Total	18	10	10	1	13	41	6	2	4	10	41	156

Table 55

DI

DI	Histology											Total
	sq	as	ud	bsl	OEM	cd	MM	LMS	LMS	NHL	OTH	
m	1	0	0	0	1	1	0	0	0	0	2	5
sm	1	0	0	0	1	20	3	0	4	1	4	34
mp	0	0	1	0	1	7	0	0	0	0	0	9
ss/a1	7	3	2	1	4	2	0	0	0	2	8	29
se/a2	4	4	4	0	3	1	0	0	0	5	6	27
si/ai	1	2	2	0	1	0	0	1	0	0	3	10
X	4	1	1	0	2	10	3	1	0	2	18	42
Total	18	10	10	1	13	41	6	2	4	10	41	156

Table 56

Lymph node metastasis, histological

Lymph node	Histology											Total
	sq	as	ud	bsl	OEM	cd	MM	LMS	LMS	NHL	OTH	
n0	6	2	3	1	6	19	3	1	4	4	24	73
n1	3	2	2	0	3	3	0	0	0	3	1	17
n2	4	3	3	0	1	4	0	0	0	1	1	17
n3	1	1	1	0	1	0	0	0	0	0	2	6
n4	0	1	0	0	1	0	0	0	0	0	2	4
nX	4	1	1	0	1	15	3	1	0	2	11	39
Total	18	10	10	1	13	41	6	2	4	10	41	156

Table 57

Tumor size (mm)

Size (mm)	Histology											Total
	sq	as	ud	bsl	OEM	cd	MM	LMS	LMS	NHL	OTH	
<=20	1	0	0	0	1	24	2	0	0	1	4	33
21-40	4	1	2	0	4	4	2	0	0	0	6	23
41-60	3	3	4	0	4	1	0	1	0	4	4	24
61-80	2	2	2	1	0	0	0	0	0	0	4	11
81-100	0	1	1	0	1	0	0	0	0	1	2	6
101-	1	0	0	0	0	0	0	0	0	1	1	3
X	7	3	1	0	3	12	2	1	4	3	20	56
Total	18	10	10	1	13	41	6	2	4	10	41	156

Table 58

Curability of surgical resection, histological

Curability	Histology											Total
	sq	as	ud	bsl	OEM	cd	MM	LMS	LMB	NHL	OTH	
cur A	9	4	6	1	8	30	5	0	4	7	24	98
curB	3	1	0	0	2	1	0	0	0	0	3	10
curC	3	4	3	0	3	2	1	1	0	0	3	20
Notresected	1	0	1	0	0	0	0	0	0	1	5	8
X	2	1	0	0	0	8	0	1	0	2	6	20
Total	18	10	10	1	13	41	6	2	4	10	41	156

Table 59

Histological typing, by site

Site	Histology					Total
	sq	OEM	cd	NHL	OTH	
C	0	0	0	0	0	0
A	0	0	0	0	0	0
T	0	0	0	0	0	0
D	0	0	0	1	0	1
S	0	0	0	0	1	1
Rs	0	0	0	0	0	0
Ra	0	1	1	0	0	2
Rb	0	0	4	0	0	4
P	1	0	0	0	0	1
Colon	0	0	0	1	1	2
Rectum	1	1	5	0	0	7
Total	1	1	5	1	1	9

Table 60

Endoscopic excision

Excision	Histology					Total
	sq	OEM	cd	NHL	OTH	
Complete	0	0	2	0	1	3
Undecidable	0	0	2	1	0	3
X	1	1	1	0	0	3
Total	1	1	5	1	1	9

Table 61

DI

DI	Histology					Total
	sq	OEM	cd	NHL	OTH	
m	0	0	0	0	0	0
sm	1	0	1	1	0	3
mp	0	0	0	0	0	0
ss/al	0	0	1	0	0	1
X	0	1	3	0	1	5
Total	1	1	5	1	1	9

Table 62

Cut end of the specimen, mucosal and submucosal

DI							Total
sm		ss/al		X			
sm-ce							
m-ce	+	x	X	-	+	X	
-	0	0	0	1	0	1	2
X	2	1	1	0	1	2	7
Total	2	1	1	1	1	3	9

Table 63

Curability of endoscopic excision

Site	Histology					Total
	sq	OEM	cd	NHL	OTH	
cur A	1	1	3	1	0	6
curB	0	0	0	0	0	0
curC	0	0	0	0	0	0
X	0	0	2	0	1	3
Total	1	1	5	1	1	9

Selected data for survival analysis

Table 64

Number of excluded cases for survival analysis

Cases with the unknown current status	349
Missing for date of last contact for reportedly living cases	7
Missing for date of death for reportedly mortal cases	2
Reportedly living cases with cause of death	9
Cases with 0 day for survival	9
Cases with date of the last contact before surgery or with date of death before surgery	23
Cases younger than 15	1
Total	400

*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
cur A	16	8,331	0.2%
cur B	6	840	0.7%
cur C	26	1,370	1.9%
Unresect	4	45	8.9%
Unknown	1	197	0.5%
Missing	3	372	0.8%
Total	56	11,155	0.5%

Table 66-1

Age incidence

Male

Site	<20	<30	<40	<50	<60	<70	<80	<90	<100	Total
V	0	0	0	0	3	7	4	2	0	16
C	0	0	6	20	55	128	144	42	4	399
A	0	0	5	29	137	281	287	104	11	854
T	0	2	8	23	93	166	227	71	2	592
D	1	1	10	14	57	124	125	19	0	351
S	0	5	21	79	319	636	590	140	5	1,795
Rs	0	1	18	46	206	298	266	53	3	891
Ra	1	1	20	52	246	276	222	51	1	870
Rb	0	5	28	90	288	362	272	57	2	1,104
P	0	0	3	2	13	21	10	3	0	52
Total	2	15	119	355	1,417	2,299	2,147	542	28	6,924

Table 66-2

Age incidence

Female

Site	<20	<30	<40	<50	<60	<70	<80	<90	<100	Total
V	0	0	0	3	7	6	6	2	0	24
C	0	1	5	11	72	111	145	67	7	419
A	0	2	6	20	122	256	282	129	9	826
T	0	4	7	22	65	129	158	75	8	468
D	0	1	7	18	32	65	75	14	5	217
S	0	4	31	85	281	390	358	130	16	1,295
Rs	0	3	10	39	142	185	179	64	5	627
Ra	0	4	14	39	103	127	108	41	2	438
Rb	0	5	16	61	149	162	145	50	6	594
P	0	1	1	1	6	8	11	2	1	31
Total	0	25	97	299	979	1,439	1,467	574	59	4,939

Table 67

Modality of treatment

Site	Surgery only	Endoscopy only	Endoscopy followed by surgery	Total
V	39	0	1	40
C	791	17	10	818
A	1,582	63	35	1,680
T	1,012	27	21	1,060
D	530	24	14	568
S	2,823	144	123	3,090
Rs	1,456	35	27	1,518
Ra	1,262	26	20	1,308
Rb	1,633	40	25	1,698
P	83	0	0	83
Total	11,211	376	276	11,863

Table 68

Surgical curability (histologically determined) for surgical cases*

Site	cur A	cur B	cur C	Unresect	Unknown	Missing	Total
V	26	4	7	0	2	1	40
C	572	57	145	4	8	15	801
A	1,204	121	218	10	25	39	1,617
T	799	76	124	4	9	21	1,033
D	418	40	74	1	4	7	544
S	2,254	193	394	8	31	66	2,946
Rs	1,120	120	178	4	24	37	1,483
Ra	982	94	145	9	21	31	1,282
Rb	1,299	122	156	10	27	44	1,658
P	56	10	10	0	3	4	83
Total	8,730	837	1,451	50	154	265	11,487

*Surgical cases=Cases treated by surgery alone or endoscopic resection followed by surgery

Table 69

Liver metastasis for surgical cases

Site	H0	H1	H2	H3	HX	Missing	Total
V	38	0	1	1	0	0	40
C	675	40	20	47	15	4	801
A	1,403	59	29	99	20	7	1,617
T	890	38	21	62	16	6	1,033
D	469	24	10	32	3	6	544
S	2,513	109	80	185	37	22	2,946
Rs	1,285	59	32	89	8	10	1,483
Ra	1,110	52	28	57	20	15	1,282
Rb	1,500	49	29	43	20	17	1,658
P	75	3	1	1	2	1	83
Total	9,958	433	251	616	141	88	11,487

Table 70

Peritoneal metastasis for surgical cases

Site	P0	P1	P2	P3	PX	Missing	Total
V	35	0	2	3	0	0	40
C	691	33	22	33	3	19	801
A	1,479	37	21	50	3	27	1,617
T	966	20	6	19	3	19	1,033
D	505	12	6	14	0	7	544
S	2,757	53	34	49	8	45	2,946
Rs	1,417	27	12	12	2	13	1,483
Ra	1,215	19	7	7	7	27	1,282
Rb	1,594	12	3	5	23	21	1,658
P	78	0	0	0	2	3	83
Total	10,737	213	113	192	51	181	11,487

Table 71

Lung metastasis for surgical cases

Site	LM0	LM1	LM2	LM3	LMX	Missing	Total
V	38	0	0	0	0	2	40
C	725	13	7	7	19	30	801
A	1,491	26	6	19	28	47	1,617
T	965	10	3	5	17	33	1,033
D	509	8	0	7	6	14	544
S	2,732	37	6	23	51	97	2,946
Rs	1,381	16	8	16	12	50	1,483
Ra	1,171	15	6	19	30	41	1,282
Rb	1,525	27	6	20	18	62	1,658
P	78	0	1	0	1	3	83
Total	10,615	152	43	116	182	379	11,487

Table 72

Distant metastasis for surgical cases

Site	M(-)	M(+)	MX	Missing	Total
V	27	0	0	13	40
C	733	27	8	33	801
A	1,523	40	4	50	1,617
T	980	18	2	33	1,033
D	488	13	1	42	544
S	2,789	46	12	99	2,946
Rs	1,399	29	4	51	1,483
Ra	1,191	25	3	63	1,282
Rb	1,579	27	14	38	1,658
P	75	3	1	4	83
Total	10,784	228	49	426	11,487

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	224	762	546	1,076	575	167	31	49	3,430
N1	4	34	104	694	817	259	2	22	1,936
N2	1	3	20	290	478	205	2	11	1,010
N3	0	0	2	35	103	51	0	0	191
N4	0	0	1	29	91	62	1	2	186
NX	1	2	1	13	34	28	11	5	95
Missing	1	7	13	19	22	8	57	6	133
Total	231	808	687	2,156	2,120	780	104	95	6,981

Table 74

Macroscopic lymph node metastasis and depth of invasion

Rectal cancer for surgical cases

	M	SM	MP	SS/A1	SE/A2	Si/Ai	Unknown	Missing	Total
N0	107	386	526	684	350	91	29	21	2,194
N1	0	25	97	500	563	138	4	22	1,349
N2	0	7	26	127	256	97	2	14	529
N3	0	0	2	27	60	35	1	8	133
N4	0	0	0	12	54	28	2	1	97
NX	10	8	3	9	11	15	9	2	67
Missing	6	5	16	18	14	6	60	12	137
Total	123	431	670	1,377	1,308	410	107	80	4,506

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	308	686	558	1,618	526	172	7	31	3,906
n1	3	45	120	785	426	123	3	7	1,512
n2	0	14	24	339	265	51	1	2	696
n3	0	0	3	54	77	22	0	1	157
n4	1	0	3	36	57	19	0	2	118
nX	3	7	14	88	55	21	7	1	196
Missing	17	39	42	193	48	31	4	22	396
Total	332	791	764	3,113	1,454	439	22	66	6,981

Table 76

Microscopic lymph node metastasis and depth of invasion

Rectal cancer for surgical cases

	m	sm	mp	ss/a1	se/a2	si/ai	Unknown	Missing	Total
n0	133	376	519	821	328	82	7	18	2,284
n1	0	46	126	534	357	58	0	13	1,134
n2	1	7	40	180	230	30	0	7	495
n3	1	0	5	34	65	24	0	8	137
n4	0	0	0	18	38	10	0	0	66
nX	18	9	11	12	21	6	17	0	94
Missing	19	32	47	116	44	18	2	18	296
Total	172	470	748	1,715	1,083	228	26	64	4,506

Survival analysis

Table 77-1

Sex

Colon cancer, surgical cases

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	6981	547	477	91.9%	0.3%	91.3%	92.5%
1-2	5957	418	318	85.3%	0.4%	84.4%	86.1%
2-3	5221	318	216	80.0%	0.5%	79.0%	80.9%
3-4	4687	215	225	76.2%	0.5%	75.2%	77.2%
4-5	4247	155	391	73.3%	0.6%	72.2%	74.4%
5-	3701	245	3456				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	3832	298	262	91.9%	0.4%	91.1%	92.8%
1-2	3272	228	173	85.4%	0.6%	84.2%	86.5%
2-3	2871	187	126	79.7%	0.7%	78.4%	81.0%
3-4	2558	138	132	75.3%	0.7%	73.9%	76.7%
4-5	2288	98	212	71.9%	0.8%	70.4%	73.4%
5-	1978	159	1819				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	3149	249	215	91.8%	0.5%	90.9%	92.8%
1-2	2685	190	145	85.1%	0.6%	83.9%	86.4%
2-3	2350	131	90	80.3%	0.7%	78.9%	81.7%
3-4	2129	77	93	77.3%	0.8%	75.8%	78.8%
4-5	1959	57	179	75.0%	0.8%	73.4%	76.5%
5-	1723	86	1637				

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	275	6	66	97.5%	0.9%	95.8%	99.2%
1-2	203	2	22	96.5%	1.1%	94.3%	98.7%
2-3	179	2	22	95.4%	1.3%	92.8%	98.0%
3-4	155	3	16	93.4%	1.7%	90.1%	96.7%
4-5	136	4	22	90.4%	2.1%	86.3%	94.6%
5-	110	11	99				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	175	5	37	96.8%	1.3%	94.3%	99.3%
1-2	133	2	14	95.3%	1.6%	92.1%	98.4%
2-3	117	2	13	93.5%	1.9%	89.7%	97.4%
3-4	102	2	10	91.6%	2.3%	87.1%	96.1%
4-5	90	3	15	88.3%	2.8%	82.8%	93.8%
5-	72	9	63				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	100	1	29	98.8%	1.0%	96.9%	100.8%
1-2	70	0	8	98.8%	1.0%	96.9%	100.8%
2-3	62	0	9	98.8%	1.0%	96.9%	100.8%
3-4	53	1	6	96.9%	2.1%	92.8%	100.9%
4-5	46	1	7	94.6%	2.9%	88.9%	100.3%
5-	38	2	36				

Table 78-1
Sex
Rectal cancer, surgical cases

Males and females							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	4506	305	265	93.0%	0.4%	92.3%	93.8%
1-2	3936	238	210	87.2%	0.5%	86.3%	88.2%
2-3	3488	222	144	81.6%	0.6%	80.4%	82.7%
3-4	3122	182	123	76.7%	0.7%	75.5%	78.0%
4-5	2817	137	225	72.8%	0.7%	71.5%	74.2%
5-	2455	220	2235				

Males							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	2850	212	152	92.4%	0.5%	91.4%	93.3%
1-2	2486	163	125	86.1%	0.6%	84.9%	87.4%
2-3	2198	161	88	79.7%	0.8%	78.2%	81.2%
3-4	1949	119	77	74.7%	0.8%	73.1%	76.4%
4-5	1753	97	144	70.4%	0.9%	68.7%	72.2%
5-	1512	154	1358				

Females							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	1656	93	113	94.2%	0.6%	93.1%	95.3%
1-2	1450	75	85	89.2%	0.8%	87.7%	90.7%
2-3	1290	61	56	84.9%	0.9%	83.1%	86.6%
3-4	1173	63	46	80.2%	1.0%	78.2%	82.2%
4-5	1064	40	81	77.1%	1.1%	75.0%	79.2%
5-	943	66	877				

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	101	0	30	100.0%	0.0%	100.0%	100.0%
1-2	71	2	7	97.0%	2.0%	93.2%	100.9%
2-3	62	1	8	95.4%	2.5%	90.5%	100.2%
3-4	53	1	4	93.5%	3.0%	87.6%	99.4%
4-5	48	0	5	93.5%	3.0%	87.6%	99.4%
5-	43	2	41				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	67	0	19	100.0%	0.0%	100.0%	100.0%
1-2	48	2	5	95.6%	2.9%	90.0%	101.2%
2-3	41	1	5	93.1%	3.6%	86.0%	100.2%
3-4	35	1	1	90.4%	4.4%	81.8%	99.0%
4-5	33	0	2	90.4%	4.4%	81.8%	99.0%
5-	31	0	31				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	34	0	11	100.0%	0.0%	100.0%	100.0%
1-2	23	0	2	100.0%	0.0%	100.0%	100.0%
2-3	21	0	3	100.0%	0.0%	100.0%	100.0%
3-4	18	0	3	100.0%	0.0%	100.0%	100.0%
4-5	15	0	3	100.0%	0.0%	100.0%	100.0%
5-	12	2	10				

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	224	5	24	97.6%	1.0%	95.7%	99.6%
1-2	195	3	5	96.1%	1.3%	93.6%	98.7%
2-3	187	0	14	96.1%	1.3%	93.6%	98.7%
3-4	173	3	17	94.4%	1.6%	91.2%	97.5%
4-5	153	2	12	93.1%	1.8%	89.6%	96.6%
5-	139	9	130				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	130	4	15	96.7%	1.5%	93.8%	99.7%
1-2	111	3	4	94.1%	2.1%	90.0%	98.2%
2-3	104	0	13	94.1%	2.1%	90.0%	98.2%
3-4	91	2	9	91.9%	2.5%	87.0%	96.8%
4-5	80	2	6	89.5%	2.9%	83.8%	95.2%
5-	72	6	66				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	94	1	9	98.9%	1.1%	96.8%	101.0%
1-2	84	0	1	98.9%	1.1%	96.8%	101.0%
2-3	83	0	1	98.9%	1.1%	96.8%	101.0%
3-4	82	1	8	97.6%	1.6%	94.5%	100.7%
4-5	73	0	6	97.6%	1.6%	94.5%	100.7%
5-	67	3	64				

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	1,296	21	92	98.3%	0.4%	97.6%	99.0%
1-2	1,183	18	62	96.8%	0.5%	95.8%	97.7%
2-3	1,103	17	35	95.3%	0.6%	94.1%	96.4%
3-4	1,051	14	53	94.0%	0.7%	92.6%	95.3%
4-5	984	16	100	92.4%	0.8%	90.8%	93.9%
5-	868	41	827				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	749	15	53	97.9%	0.5%	96.9%	98.9%
1-2	681	12	36	96.2%	0.7%	94.8%	97.5%
2-3	633	11	24	94.4%	0.9%	92.8%	96.1%
3-4	598	6	28	93.5%	0.9%	91.7%	95.3%
4-5	564	14	56	91.0%	1.1%	88.9%	93.2%
5-	494	28	466				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	547	6	39	98.9%	0.4%	98.0%	99.7%
1-2	502	6	26	97.6%	0.7%	96.4%	98.9%
2-3	470	6	11	96.4%	0.8%	94.8%	98.0%
3-4	453	8	25	94.6%	1.0%	92.7%	96.6%
4-5	420	2	44	94.2%	1.0%	92.1%	96.2%
5-	374	13	361				

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	1,493	40	98	97.2%	0.4%	96.4%	98.0%
1-2	1,355	46	75	93.8%	0.6%	92.6%	95.1%
2-3	1,234	42	50	90.6%	0.8%	89.1%	92.1%
3-4	1,142	41	45	87.3%	0.9%	85.5%	89.0%
4-5	1,056	32	102	84.5%	1.0%	82.6%	86.4%
5-	922	60	862				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	835	26	59	96.8%	0.6%	95.6%	97.9%
1-2	750	28	36	93.1%	0.9%	91.3%	94.8%
2-3	686	29	31	89.0%	1.1%	86.9%	91.2%
3-4	626	28	32	85.0%	1.3%	82.4%	87.5%
4-5	566	20	65	81.8%	1.4%	79.0%	84.5%
5-	481	42	439				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	658	14	39	97.8%	0.6%	96.7%	98.9%
1-2	605	18	39	94.8%	0.9%	93.1%	96.5%
2-3	548	13	19	92.5%	1.0%	90.5%	94.6%
3-4	516	13	13	90.2%	1.2%	87.8%	92.5%
4-5	490	12	37	87.9%	1.3%	85.2%	90.5%
5-	441	18	423				

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	1,686	53	93	96.8%	0.4%	95.9%	97.6%
1-2	1,540	73	82	92.1%	0.7%	90.8%	93.4%
2-3	1,385	53	57	88.5%	0.8%	86.9%	90.0%
3-4	1,275	59	58	84.3%	0.9%	82.5%	86.1%
4-5	1,158	41	99	81.2%	1.0%	79.2%	83.1%
5-	1,018	72	946				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	896	39	40	95.5%	0.7%	94.2%	96.9%
1-2	817	31	44	91.8%	0.9%	90.0%	93.6%
2-3	742	29	23	88.2%	1.1%	86.0%	90.3%
3-4	690	39	27	83.1%	1.3%	80.6%	85.6%
4-5	624	26	53	79.5%	1.4%	76.7%	82.2%
5-	545	44	501				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	790	14	53	98.2%	0.5%	97.2%	99.1%
1-2	723	42	38	92.3%	1.0%	90.4%	94.2%
2-3	643	24	34	88.8%	1.2%	86.5%	91.0%
3-4	585	20	31	85.7%	1.3%	83.1%	88.2%
4-5	534	15	46	83.1%	1.4%	80.4%	85.9%
5-	473	28	445				

Table 79-5
Clinical stage
Colon cancer, surgical cases

Clinical stage IIb

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	771	32	41	95.7%	0.7%	94.3%	97.1%
1-2	698	49	37	88.8%	1.1%	86.6%	91.1%
2-3	612	56	20	80.6%	1.5%	77.7%	83.4%
3-4	536	22	25	77.2%	1.6%	74.1%	80.2%
4-5	489	15	41	74.7%	1.6%	71.5%	77.9%
5-	433	27	406				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	408	19	24	95.2%	1.0%	93.2%	97.2%
1-2	365	31	18	86.9%	1.7%	83.6%	90.2%
2-3	316	35	10	77.1%	2.1%	72.9%	81.3%
3-4	271	13	18	73.3%	2.3%	68.9%	77.7%
4-5	240	8	15	70.8%	2.3%	66.2%	75.4%
5-	217	18	199				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	363	13	17	96.3%	1.0%	94.4%	98.2%
1-2	333	18	19	91.0%	1.5%	88.0%	93.9%
2-3	296	21	10	84.4%	1.9%	80.6%	88.2%
3-4	265	9	7	81.5%	2.1%	77.4%	85.6%
4-5	249	7	26	79.1%	2.2%	74.8%	83.4%
5-	216	9	207				

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	1268	380	113	68.6%	1.3%	66.2%	71.1%
1-2	775	218	46	48.7%	1.4%	46.0%	51.5%
2-3	511	139	32	35.1%	1.4%	32.3%	37.8%
3-4	340	69	14	27.8%	1.3%	25.2%	30.4%
4-5	257	42	17	23.1%	1.3%	20.6%	25.6%
5-	198	31	167				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	681	186	61	71.4%	1.7%	68.1%	74.7%
1-2	434	119	28	51.2%	1.9%	47.4%	55.0%
2-3	287	76	21	37.1%	1.9%	33.3%	40.9%
3-4	190	44	9	28.3%	1.8%	24.7%	31.9%
4-5	137	22	8	23.6%	1.8%	20.1%	27.1%
5-	107	20	87				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	587	194	52	65.4%	1.9%	61.7%	69.1%
1-2	341	99	18	45.9%	2.1%	41.8%	50.0%
2-3	224	63	11	32.7%	2.0%	28.7%	36.6%
3-4	150	25	5	27.1%	1.9%	23.3%	30.9%
4-5	120	20	9	22.4%	1.8%	18.8%	26.1%
5-	91	11	80				

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	122	3	12	97.4%	1.4%	94.7%	100.2%
1-2	107	1	8	96.5%	1.7%	93.2%	99.7%
2-3	98	1	3	95.5%	1.9%	91.7%	99.2%
3-4	94	0	15	95.5%	1.9%	91.7%	99.2%
4-5	79	2	12	92.9%	2.5%	87.9%	97.8%
5-	65	3	62				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	72	3	6	95.7%	2.4%	91.0%	100.3%
1-2	63	1	3	94.1%	2.8%	88.7%	99.5%
2-3	59	1	2	92.5%	3.1%	86.3%	98.6%
3-4	56	0	10	92.5%	3.1%	86.3%	98.6%
4-5	46	1	9	90.2%	3.6%	83.1%	97.4%
5-	36	1	35				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	50	0	6	100.0%	0.0%	100.0%	100.0%
1-2	44	0	5	100.0%	0.0%	100.0%	100.0%
2-3	39	0	1	100.0%	0.0%	100.0%	100.0%
3-4	38	0	5	100.0%	0.0%	100.0%	100.0%
4-5	33	1	3	96.8%	3.0%	91.0%	102.7%
5-	29	2	27				

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	902	18	44	98.0%	0.5%	97.0%	98.9%
1-2	840	10	38	96.8%	0.6%	95.6%	97.9%
2-3	792	22	33	94.0%	0.8%	92.4%	95.6%
3-4	737	15	26	92.1%	0.9%	90.3%	93.9%
4-5	696	8	59	91.0%	1.0%	89.0%	92.9%
5-	629	41	588				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	553	13	21	97.6%	0.6%	96.3%	98.9%
1-2	519	7	24	96.3%	0.8%	94.7%	97.8%
2-3	488	15	20	93.2%	1.1%	91.1%	95.4%
3-4	453	10	15	91.1%	1.2%	88.7%	93.6%
4-5	428	5	41	90.0%	1.3%	87.5%	92.6%
5-	382	24	358				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	349	5	23	98.5%	0.6%	97.3%	99.8%
1-2	321	3	14	97.6%	0.8%	96.0%	99.2%
2-3	304	7	13	95.3%	1.2%	93.0%	97.6%
3-4	284	5	11	93.6%	1.4%	90.9%	96.2%
4-5	268	3	18	92.5%	1.5%	89.6%	95.4%
5-	247	17	230				

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	959	26	53	97.2%	0.5%	96.2%	98.2%
1-2	880	21	44	94.8%	0.7%	93.4%	96.2%
2-3	815	25	24	91.9%	0.9%	90.1%	93.6%
3-4	766	26	22	88.7%	1.1%	86.6%	90.8%
4-5	718	34	56	84.3%	1.2%	81.9%	86.7%
5-	628	64	564				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	599	21	35	96.4%	0.8%	94.9%	97.9%
1-2	543	13	27	94.0%	1.0%	92.1%	95.9%
2-3	503	18	13	90.6%	1.2%	88.2%	93.0%
3-4	472	15	14	87.7%	1.4%	85.0%	90.4%
4-5	443	21	30	83.4%	1.6%	80.3%	86.5%
5-	392	45	347				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	360	5	18	98.6%	0.6%	97.4%	99.8%
1-2	337	8	17	96.2%	1.0%	94.2%	98.2%
2-3	312	7	11	94.0%	1.3%	91.5%	96.5%
3-4	294	11	8	90.4%	1.6%	87.3%	93.6%
4-5	275	13	26	85.9%	1.9%	82.2%	89.7%
5-	236	19	217				

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	1,179	34	62	97.0%	0.5%	96.1%	98.0%
1-2	1,083	50	47	92.5%	0.8%	90.9%	94.0%
2-3	986	64	39	86.3%	1.0%	84.3%	88.3%
3-4	883	54	31	81.0%	1.2%	78.6%	83.3%
4-5	798	42	51	76.6%	1.3%	74.0%	79.1%
5-	705	66	639				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	748	24	34	96.7%	0.6%	95.5%	98.0%
1-2	690	35	26	91.7%	1.0%	89.7%	93.7%
2-3	629	50	22	84.3%	1.4%	81.6%	87.0%
3-4	557	38	18	78.5%	1.6%	75.4%	81.5%
4-5	501	28	31	73.9%	1.7%	70.7%	77.2%
5-	442	52	390				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	431	10	28	97.6%	0.7%	96.2%	99.0%
1-2	393	15	21	93.8%	1.2%	91.5%	96.1%
2-3	357	14	17	90.0%	1.5%	87.1%	92.9%
3-4	326	16	13	85.5%	1.8%	82.0%	89.0%
4-5	297	14	20	81.3%	2.0%	77.4%	85.2%
5-	263	14	249				

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	464	31	26	93.1%	1.2%	90.9%	95.4%
1-2	407	35	33	84.8%	1.7%	81.5%	88.0%
2-3	339	31	19	76.8%	2.0%	72.9%	80.7%
3-4	289	27	14	69.4%	2.2%	65.1%	73.8%
4-5	248	18	18	64.2%	2.4%	59.6%	68.9%
5-	212	22	190				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	302	22	16	92.5%	1.5%	89.6%	95.4%
1-2	264	26	20	83.0%	2.2%	78.8%	87.3%
2-3	218	18	14	76.0%	2.5%	71.1%	80.9%
3-4	186	19	10	68.0%	2.8%	62.5%	73.5%
4-5	157	16	13	60.8%	3.0%	54.9%	66.6%
5-	128	16	112				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	162	9	10	94.3%	1.8%	90.7%	97.8%
1-2	143	9	13	88.1%	2.5%	83.1%	93.0%
2-3	121	13	5	78.4%	3.4%	71.8%	85.0%
3-4	103	8	4	72.2%	3.7%	64.9%	79.5%
4-5	91	2	5	70.6%	3.8%	63.1%	78.0%
5-	84	6	78				

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	649	179	54	71.2%	1.7%	67.8%	74.6%
1-2	416	114	28	51.0%	2.0%	47.2%	54.9%
2-3	274	65	20	38.5%	2.0%	34.6%	42.3%
3-4	189	50	6	28.1%	1.9%	24.4%	31.8%
4-5	133	24	8	22.9%	1.8%	19.4%	26.4%
5-	101	16	85				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	428	120	33	70.8%	2.1%	66.6%	75.0%
1-2	275	76	19	50.6%	2.4%	45.8%	55.3%
2-3	180	47	12	36.9%	2.4%	32.2%	41.6%
3-4	121	31	4	27.3%	2.3%	22.8%	31.8%
4-5	86	18	5	21.4%	2.2%	17.2%	25.6%
5-	63	11	52				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	221	59	21	72.0%	2.9%	66.2%	77.7%
1-2	141	38	9	51.9%	3.4%	45.3%	58.6%
2-3	94	18	8	41.5%	3.4%	34.8%	48.3%
3-4	68	19	2	29.8%	3.3%	23.2%	36.3%
4-5	47	6	3	25.8%	3.2%	19.5%	32.2%
5-	38	5	33				

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	326	9	40	97.1%	0.9%	95.3%	98.8%
1-2	277	4	10	95.6%	1.1%	93.4%	97.8%
2-3	263	4	19	94.1%	1.3%	91.5%	96.7%
3-4	240	4	24	92.5%	1.5%	89.5%	95.4%
4-5	212	3	22	91.1%	1.7%	87.8%	94.4%
5-	187	10	177				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	193	9	25	95.0%	1.5%	92.0%	98.0%
1-2	159	3	6	93.2%	1.8%	89.7%	96.7%
2-3	150	4	16	90.6%	2.1%	86.4%	94.8%
3-4	130	2	13	89.1%	2.3%	84.6%	93.6%
4-5	115	3	14	86.6%	2.6%	81.5%	91.7%
5-	98	7	91				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	133	0	15	100.0%	0.0%	100.0%	100.0%
1-2	118	1	4	99.1%	0.8%	97.5%	100.8%
2-3	113	0	3	99.1%	0.8%	97.5%	100.8%
3-4	110	2	11	97.2%	1.5%	94.3%	100.2%
4-5	97	0	8	97.2%	1.5%	94.3%	100.2%
5-	89	3	86				

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	1,350	18	89	98.6%	0.3%	98.0%	99.2%
1-2	1,243	21	64	96.9%	0.5%	96.0%	97.8%
2-3	1,158	14	31	95.7%	0.6%	94.6%	96.8%
3-4	1,113	15	47	94.4%	0.6%	93.1%	95.7%
4-5	1,051	18	108	92.7%	0.7%	91.3%	94.1%
5-	925	38	887				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	765	14	51	98.1%	0.5%	97.2%	99.1%
1-2	700	12	35	96.4%	0.7%	95.1%	97.7%
2-3	653	9	17	95.0%	0.8%	93.5%	96.6%
3-4	627	8	25	93.8%	0.9%	92.0%	95.6%
4-5	594	16	62	91.1%	1.1%	89.0%	93.2%
5-	516	27	489				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	585	4	38	99.3%	0.3%	98.6%	100.0%
1-2	543	9	29	97.6%	0.6%	96.4%	98.9%
2-3	505	5	14	96.6%	0.8%	95.1%	98.1%
3-4	486	7	22	95.2%	0.9%	93.4%	97.0%
4-5	457	2	46	94.8%	1.0%	92.9%	96.6%
5-	409	11	398				

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	2,176	59	127	97.2%	0.3%	96.5%	97.9%
1-2	1,990	59	102	94.2%	0.5%	93.3%	95.2%
2-3	1,829	64	78	90.9%	0.6%	89.6%	92.1%
3-4	1,687	62	77	87.5%	0.7%	86.0%	88.9%
4-5	1,548	34	146	85.4%	0.8%	83.9%	87.0%
5-	1,368	82	1,286				

Males							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	1,201	42	68	96.4%	0.5%	95.4%	97.4%
1-2	1,091	34	49	93.3%	0.7%	91.9%	94.7%
2-3	1,008	41	42	89.5%	0.9%	87.7%	91.2%
3-4	925	40	49	85.5%	1.0%	83.4%	87.5%
4-5	836	23	84	83.0%	1.1%	80.8%	85.2%
5-	729	58	671				

Females							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	975	17	59	98.2%	0.4%	97.4%	99.0%
1-2	899	25	53	95.4%	0.7%	94.1%	96.7%
2-3	821	23	36	92.7%	0.9%	91.0%	94.3%
3-4	762	22	28	89.9%	1.0%	88.0%	91.9%
4-5	712	11	62	88.5%	1.1%	86.4%	90.6%
5-	639	24	615				

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	1,313	49	71	96.2%	0.5%	95.1%	97.2%
1-2	1,193	75	70	89.9%	0.8%	88.3%	91.6%
2-3	1,048	53	42	85.3%	1.0%	83.3%	87.2%
3-4	953	42	41	81.5%	1.1%	79.3%	83.6%
4-5	870	42	74	77.3%	1.2%	75.0%	79.7%
5-	754	56	698				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	705	31	36	95.5%	0.8%	94.0%	97.0%
1-2	638	37	40	89.8%	1.1%	87.5%	92.0%
2-3	561	33	23	84.4%	1.4%	81.6%	87.1%
3-4	505	30	24	79.2%	1.6%	76.1%	82.3%
4-5	451	24	37	74.8%	1.7%	71.5%	78.2%
5-	390	30	360				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	608	18	35	97.0%	0.7%	95.6%	98.3%
1-2	555	38	30	90.1%	1.2%	87.7%	92.5%
2-3	487	20	19	86.4%	1.4%	83.6%	89.1%
3-4	448	12	17	84.0%	1.5%	81.0%	87.0%
4-5	419	18	37	80.2%	1.7%	76.9%	83.5%
5-	364	26	338				

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	529	30	36	94.1%	1.0%	92.2%	96.1%
1-2	463	36	22	86.6%	1.5%	83.7%	89.6%
2-3	405	45	14	76.8%	1.9%	73.1%	80.5%
3-4	346	22	19	71.8%	2.0%	67.8%	75.8%
4-5	305	15	23	68.1%	2.1%	64.0%	72.3%
5-	267	30	237				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	277	11	21	95.9%	1.2%	93.6%	98.2%
1-2	245	21	11	87.5%	2.0%	83.5%	91.4%
2-3	213	25	7	77.0%	2.6%	71.9%	82.2%
3-4	181	14	11	70.9%	2.9%	65.3%	76.5%
4-5	156	9	6	66.7%	3.0%	60.8%	72.6%
5-	141	18	123				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	252	19	15	92.2%	1.7%	89.0%	95.5%
1-2	218	15	11	85.7%	2.2%	81.4%	90.0%
2-3	192	20	7	76.6%	2.7%	71.3%	82.0%
3-4	165	8	8	72.8%	2.9%	67.1%	78.5%
4-5	149	6	17	69.7%	3.0%	63.8%	75.6%
5-	126	12	114				

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	1,258	376	113	68.7%	1.3%	66.2%	71.2%
1-2	769	222	48	48.2%	1.4%	45.4%	51.0%
2-3	499	137	31	34.6%	1.4%	31.8%	37.3%
3-4	331	69	14	27.2%	1.3%	24.6%	29.8%
4-5	248	42	17	22.4%	1.3%	19.9%	24.9%
5-	189	29	160				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	675	186	61	71.1%	1.7%	67.8%	74.5%
1-2	428	121	30	50.3%	1.9%	46.5%	54.1%
2-3	277	75	20	36.2%	1.9%	32.4%	39.9%
3-4	182	43	8	27.4%	1.8%	23.8%	31.0%
4-5	131	22	8	22.7%	1.8%	19.2%	26.1%
5-	101	19	82				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	583	190	52	65.9%	1.9%	62.2%	69.6%
1-2	341	101	18	45.8%	2.1%	41.8%	49.9%
2-3	222	62	11	32.7%	2.0%	28.8%	36.7%
3-4	149	26	6	26.9%	1.9%	23.1%	30.7%
4-5	117	20	9	22.1%	1.8%	18.5%	25.7%
5-	88	10	78				

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	168	4	17	97.5%	1.2%	95.2%	99.8%
1-2	147	3	8	95.4%	1.6%	92.3%	98.6%
2-3	136	1	5	94.7%	1.8%	91.3%	98.2%
3-4	130	1	15	94.0%	1.9%	90.3%	97.6%
4-5	114	1	13	93.1%	2.0%	89.1%	97.1%
5-	100	4	96				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	94	4	8	95.6%	2.1%	91.5%	99.6%
1-2	82	2	4	93.2%	2.6%	88.1%	98.3%
2-3	76	1	4	91.9%	2.8%	86.3%	97.5%
3-4	71	1	10	90.5%	3.1%	84.5%	96.5%
4-5	60	1	8	88.9%	3.4%	82.3%	95.5%
5-	51	2	49				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	74	0	9	100.0%	0.0%	100.0%	100.0%
1-2	65	1	4	98.4%	1.5%	95.4%	101.4%
2-3	60	0	1	98.4%	1.5%	95.4%	101.4%
3-4	59	0	5	98.4%	1.5%	95.4%	101.4%
4-5	54	0	5	98.4%	1.5%	95.4%	101.4%
5-	49	2	47				

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	996	24	51	97.5%	0.5%	96.6%	98.5%
1-2	921	11	45	96.3%	0.6%	95.2%	97.5%
2-3	865	14	26	94.8%	0.7%	93.3%	96.2%
3-4	825	20	29	92.4%	0.9%	90.7%	94.1%
4-5	776	8	66	91.4%	0.9%	89.6%	93.2%
5-	702	43	659				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	623	19	27	96.9%	0.7%	95.5%	98.2%
1-2	577	7	27	95.7%	0.8%	94.1%	97.3%
2-3	543	10	17	93.9%	1.0%	92.0%	95.8%
3-4	516	14	17	91.3%	1.2%	89.0%	93.6%
4-5	485	4	47	90.5%	1.2%	88.1%	92.9%
5-	434	26	408				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	373	5	24	98.6%	0.6%	97.4%	99.8%
1-2	344	4	18	97.4%	0.8%	95.8%	99.0%
2-3	322	4	9	96.2%	1.0%	94.2%	98.2%
3-4	309	6	12	94.3%	1.2%	91.9%	96.7%
4-5	291	4	19	93.0%	1.4%	90.3%	95.7%
5-	268	17	251				

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	1,197	24	68	97.9%	0.4%	97.1%	98.7%
1-2	1,105	34	59	94.8%	0.6%	93.6%	96.1%
2-3	1,012	37	41	91.3%	0.8%	89.7%	92.9%
3-4	934	32	28	88.1%	1.0%	86.2%	90.0%
4-5	874	42	73	83.7%	1.1%	81.5%	85.9%
5-	759	68	691				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	794	18	45	97.7%	0.5%	96.6%	98.7%
1-2	731	22	35	94.7%	0.8%	93.1%	96.2%
2-3	674	29	25	90.5%	1.1%	88.4%	92.6%
3-4	620	20	19	87.5%	1.2%	85.2%	89.9%
4-5	581	30	45	82.8%	1.4%	80.1%	85.6%
5-	506	48	458				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	403	6	23	98.5%	0.6%	97.3%	99.6%
1-2	374	12	24	95.2%	1.1%	93.1%	97.3%
2-3	338	8	16	92.9%	1.3%	90.3%	95.5%
3-4	314	12	9	89.3%	1.6%	86.1%	92.4%
4-5	293	12	28	85.5%	1.9%	81.8%	89.1%
5-	253	20	233				

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	1,012	37	49	96.3%	0.6%	95.1%	97.4%
1-2	926	36	47	92.4%	0.8%	90.8%	94.0%
2-3	843	59	35	85.8%	1.1%	83.6%	88.0%
3-4	749	45	35	80.5%	1.3%	78.0%	83.1%
4-5	669	36	44	76.0%	1.4%	73.3%	78.8%
5-	589	59	530				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	607	25	25	95.8%	0.8%	94.2%	97.4%
1-2	557	24	28	91.6%	1.1%	89.4%	93.8%
2-3	505	43	20	83.6%	1.5%	80.6%	86.6%
3-4	442	31	22	77.6%	1.7%	74.2%	81.0%
4-5	389	22	23	73.1%	1.9%	69.4%	76.8%
5-	344	43	301				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	405	12	24	96.9%	0.8%	95.3%	98.6%
1-2	369	12	19	93.7%	1.2%	91.3%	96.1%
2-3	338	16	15	89.2%	1.6%	86.1%	92.3%
3-4	307	14	13	85.0%	1.8%	81.4%	88.6%
4-5	280	14	21	80.6%	2.1%	76.6%	84.7%
5-	245	16	229				

Table 82-5
 Histological stage
 Rectal cancer, surgical cases

Histological stage IIb

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	452	26	27	94.1%	1.1%	91.9%	96.2%
1-2	399	37	19	85.1%	1.7%	81.8%	88.4%
2-3	343	42	14	74.5%	2.1%	70.4%	78.6%
3-4	287	32	9	66.1%	2.3%	61.5%	70.6%
4-5	246	26	19	58.8%	2.4%	54.0%	63.6%
5-	201	29	172				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	280	18	14	93.4%	1.5%	90.5%	96.3%
1-2	248	30	9	81.9%	2.3%	77.4%	86.4%
2-3	209	26	10	71.5%	2.7%	66.1%	76.8%
3-4	173	21	4	62.7%	3.0%	56.8%	68.5%
4-5	148	22	15	52.9%	3.1%	46.8%	59.0%
5-	111	22	89				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	172	8	13	95.2%	1.6%	92.0%	98.3%
1-2	151	7	10	90.6%	2.2%	86.2%	95.0%
2-3	134	16	4	79.6%	3.2%	73.3%	85.9%
3-4	114	11	5	71.8%	3.6%	64.7%	78.9%
4-5	98	4	4	68.8%	3.8%	61.4%	76.1%
5-	90	7	83				

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	646	182	52	70.6%	1.7%	67.2%	74.1%
1-2	412	115	30	50.2%	2.0%	46.3%	54.0%
2-3	267	64	21	37.7%	2.0%	33.8%	41.5%
3-4	182	51	6	26.9%	1.9%	23.2%	30.6%
4-5	125	23	7	21.8%	1.8%	18.3%	25.3%
5-	95	15	80				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	426	122	33	70.2%	2.2%	66.0%	74.4%
1-2	271	76	21	49.7%	2.4%	45.0%	54.5%
2-3	174	47	12	35.8%	2.4%	31.1%	40.5%
3-4	115	31	4	26.0%	2.3%	21.5%	30.5%
4-5	80	17	5	20.3%	2.1%	16.1%	24.5%
5-	58	11	47				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	220	60	19	71.5%	3.0%	65.7%	77.3%
1-2	141	39	9	51.1%	3.4%	44.4%	57.7%
2-3	93	17	9	41.3%	3.4%	34.6%	47.9%
3-4	67	20	2	28.8%	3.3%	22.3%	35.2%
4-5	45	6	2	24.8%	3.2%	18.6%	31.1%
5-	37	4	33				

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	5.273	122	311	97.6%	0.2%	97.2%	98.0%
1-2	4.840	167	242	94.2%	0.3%	93.5%	94.8%
2-3	4.431	153	173	90.8%	0.4%	90.1%	91.6%
3-4	4.105	133	193	87.8%	0.5%	86.9%	88.7%
4-5	3.779	102	360	85.3%	0.5%	84.3%	86.3%
5-	3.317	202	3,115				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	2.909	86	170	97.0%	0.3%	96.3%	97.6%
1-2	2.653	96	127	93.4%	0.5%	92.5%	94.3%
2-3	2.430	95	100	89.6%	0.6%	88.5%	90.8%
3-4	2.235	86	116	86.1%	0.7%	84.8%	87.4%
4-5	2.033	70	198	83.0%	0.7%	81.6%	84.4%
5-	1,765	128	1,637				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	2.364	36	141	98.4%	0.3%	97.9%	98.9%
1-2	2,187	71	115	95.1%	0.4%	94.3%	96.0%
2-3	2.001	58	73	92.3%	0.6%	91.2%	93.4%
3-4	1.870	47	77	90.0%	0.6%	88.7%	91.2%
4-5	1.746	32	162	88.2%	0.7%	86.9%	89.6%
5-	1.552	74	1,478				

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	491	43	36	90.9%	1.3%	88.4%	93.4%
1-2	412	61	30	76.9%	1.9%	73.2%	80.7%
2-3	321	47	17	65.4%	2.2%	61.0%	69.7%
3-4	257	27	12	58.3%	2.3%	53.8%	62.9%
4-5	218	19	13	53.1%	2.4%	48.4%	57.8%
5-	186	21	165				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	253	15	14	93.9%	1.5%	91.0%	96.8%
1-2	224	33	16	79.6%	2.5%	74.6%	84.5%
2-3	175	25	10	67.9%	3.0%	61.9%	73.8%
3-4	140	13	6	61.4%	3.2%	55.2%	67.7%
4-5	121	10	5	56.2%	3.3%	49.8%	62.7%
5-	106	17	89				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	238	28	22	87.7%	2.1%	83.6%	91.7%
1-2	188	28	14	74.1%	2.9%	68.5%	79.7%
2-3	146	22	7	62.7%	3.3%	56.3%	69.1%
3-4	117	14	6	55.0%	3.4%	48.3%	61.7%
4-5	97	9	8	49.6%	3.5%	42.8%	56.5%
5-	80	4	76				

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	962	343	93	62.5%	1.5%	59.6%	65.5%
1-2	526	178	38	40.6%	1.6%	37.4%	43.7%
2-3	310	107	20	26.1%	1.5%	23.2%	29.0%
3-4	183	47	9	19.2%	1.4%	16.5%	21.9%
4-5	127	27	7	15.0%	1.3%	12.5%	17.5%
5-	93	17	76				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	524	172	54	65.4%	2.0%	61.5%	69.3%
1-2	298	93	26	44.1%	2.2%	39.8%	48.3%
2-3	179	62	13	28.2%	2.1%	24.1%	32.3%
3-4	104	34	4	18.8%	1.9%	15.1%	22.5%
4-5	66	13	4	15.0%	1.8%	11.5%	18.4%
5-	49	10	39				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	438	171	39	59.1%	2.3%	54.7%	63.6%
1-2	228	85	12	36.5%	2.3%	31.9%	41.1%
2-3	131	45	7	23.6%	2.1%	19.5%	27.8%
3-4	79	13	5	19.6%	2.0%	15.7%	23.5%
4-5	61	14	3	15.0%	1.9%	11.3%	18.6%
5-	44	7	37				

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	3,457	83	177	97.5%	0.3%	97.0%	98.0%
1-2	3,197	96	150	94.5%	0.4%	93.8%	95.3%
2-3	2,951	126	107	90.4%	0.5%	89.4%	91.4%
3-4	2,718	113	106	86.6%	0.6%	85.4%	87.8%
4-5	2,499	103	205	82.9%	0.7%	81.6%	84.2%
5-	2,191	182	2,009				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	2,177	66	101	96.9%	0.4%	96.2%	97.6%
1-2	2,010	68	87	93.5%	0.5%	92.5%	94.6%
2-3	1,855	92	67	88.8%	0.7%	87.5%	90.2%
3-4	1,696	74	68	84.9%	0.8%	83.3%	86.4%
4-5	1,554	71	133	80.8%	0.9%	79.1%	82.5%
5-	1,350	128	1,222				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	1,280	17	76	98.6%	0.3%	98.0%	99.3%
1-2	1,187	28	63	96.2%	0.5%	95.2%	97.3%
2-3	1,096	34	40	93.2%	0.7%	91.8%	94.6%
3-4	1,022	39	38	89.6%	0.9%	87.8%	91.3%
4-5	945	32	72	86.4%	1.0%	84.4%	88.4%
5-	841	54	787				

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	346	28	24	91.6%	1.5%	88.8%	94.5%
1-2	294	38	25	79.2%	2.2%	75.0%	83.5%
2-3	231	34	10	67.3%	2.6%	62.2%	72.4%
3-4	187	25	6	58.2%	2.8%	52.7%	63.7%
4-5	156	17	10	51.6%	2.9%	46.0%	57.3%
5-	129	22	107				

Males							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	228	18	15	91.8%	1.8%	88.3%	95.3%
1-2	195	27	15	78.6%	2.7%	73.3%	83.9%
2-3	153	25	6	65.5%	3.3%	59.1%	71.9%
3-4	122	16	2	56.8%	3.5%	50.1%	63.6%
4-5	104	14	5	49.0%	3.5%	42.1%	55.9%
5-	85	12	73				

Females							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	118	10	9	91.2%	2.6%	86.2%	96.2%
1-2	99	11	10	80.5%	3.6%	73.4%	87.7%
2-3	78	9	4	71.0%	4.3%	62.5%	79.5%
3-4	65	9	4	60.8%	4.8%	51.5%	70.2%
4-5	52	3	5	57.2%	4.9%	47.5%	66.8%
5-	44	10	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 84-3

Curability C (cur C)

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	489	165	43	64.7%	2.1%	60.6%	68.8%
1-2	281	89	19	43.5%	2.3%	39.1%	47.9%
2-3	173	50	14	30.4%	2.2%	26.2%	34.6%
3-4	109	37	7	19.7%	1.9%	15.9%	23.6%
4-5	65	13	4	15.7%	1.8%	12.1%	19.2%
5-	48	12	36				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	320	111	24	64.0%	2.6%	58.9%	69.1%
1-2	185	60	13	42.5%	2.8%	37.0%	47.9%
2-3	112	34	9	29.0%	2.6%	23.9%	34.2%
3-4	69	23	4	19.1%	2.4%	14.4%	23.7%
4-5	42	9	2	14.9%	2.2%	10.6%	19.2%
5-	31	11	20				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	169	54	19	66.1%	3.5%	59.3%	73.0%
1-2	96	29	6	45.5%	3.9%	37.9%	53.1%
2-3	61	16	5	33.1%	3.8%	25.6%	40.5%
3-4	40	14	3	21.0%	3.4%	14.3%	27.8%
4-5	23	4	2	17.2%	3.3%	10.8%	23.6%
5-	17	1	16				

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	205	2	23	99.0%	0.7%	97.6%	100.3%
1-2	180	3	5	97.3%	1.2%	95.0%	99.6%
2-3	172	0	13	97.3%	1.2%	95.0%	99.6%
3-4	159	3	15	95.4%	1.5%	92.3%	98.4%
4-5	141	2	8	94.0%	1.8%	90.5%	97.5%
5-	131	9	122				

SM

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	718	6	55	99.1%	0.3%	98.5%	99.8%
1-2	657	6	28	98.2%	0.5%	97.2%	99.2%
2-3	623	9	15	96.8%	0.7%	95.4%	98.1%
3-4	599	7	36	95.6%	0.8%	94.0%	97.2%
4-5	556	8	55	94.2%	0.9%	92.4%	96.0%
5-	493	23	470				

MP

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	507	13	32	97.4%	0.7%	96.0%	98.7%
1-2	462	7	30	95.8%	0.9%	94.1%	97.6%
2-3	425	4	19	94.9%	1.0%	93.0%	96.8%
3-4	402	6	15	93.5%	1.1%	91.3%	95.7%
4-5	381	8	34	91.4%	1.3%	88.9%	94.0%
5-	339	17	322				

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	952	24	65	97.4%	0.5%	96.4%	98.4%
1-2	863	18	50	95.3%	0.7%	94.0%	96.6%
2-3	795	18	32	93.1%	0.8%	91.5%	94.7%
3-4	745	20	25	90.6%	1.0%	88.6%	92.5%
4-5	700	21	73	87.7%	1.1%	85.5%	89.9%
5-	606	36	570				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	455	15	27	96.6%	0.8%	95.0%	98.2%
1-2	413	18	22	92.3%	1.3%	89.8%	94.7%
2-3	373	15	16	88.5%	1.5%	85.5%	91.5%
3-4	342	19	14	83.5%	1.8%	79.9%	87.0%
4-5	309	10	24	80.7%	1.9%	76.9%	84.5%
5-	275	21	254				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	126	8	6	93.5%	2.2%	89.2%	97.7%
1-2	112	6	8	88.3%	2.9%	82.7%	93.9%
2-3	98	5	6	83.7%	3.3%	77.1%	90.2%
3-4	87	5	2	78.8%	3.8%	71.4%	86.2%
4-5	80	6	7	72.6%	4.2%	64.4%	80.8%
5-	67	3	64				

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	3	1	0	66.7%	27.2%	13.3%	120.0%
1-2	2	0	1	66.7%	27.2%	13.3%	120.0%
2-3	1	0	0	66.7%	27.2%	13.3%	120.0%
3-4	1	0	0	66.7%	27.2%	13.3%	120.0%
4-5	1	0	0	66.7%	27.2%	13.3%	120.0%
5-	1	0	1				

SM

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	29	1	1	96.5%	3.4%	89.9%	103.1%
1-2	27	0	5	96.5%	3.4%	89.9%	103.1%
2-3	22	0	0	96.5%	3.4%	89.9%	103.1%
3-4	22	0	1	96.5%	3.4%	89.9%	103.1%
4-5	21	0	3	96.5%	3.4%	89.9%	103.1%
5-	18	0	18				

MP

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	96	1	3	98.9%	1.0%	96.9%	101.0%
1-2	92	5	4	93.4%	2.5%	88.5%	98.4%
2-3	83	2	2	91.2%	2.9%	85.4%	96.9%
3-4	79	1	6	90.0%	3.1%	83.9%	96.1%
4-5	72	3	9	86.0%	3.6%	78.8%	93.1%
5-	60	2	58				

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	563	8	35	98.5%	0.5%	97.6%	99.5%
1-2	520	17	30	95.2%	0.9%	93.4%	97.0%
2-3	473	16	18	91.9%	1.2%	89.6%	94.2%
3-4	439	18	22	88.1%	1.4%	85.3%	90.9%
4-5	399	12	33	85.3%	1.6%	82.2%	88.4%
5-	354	23	331				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	582	19	29	96.7%	0.7%	95.2%	98.1%
1-2	534	28	22	91.5%	1.2%	89.2%	93.8%
2-3	484	21	14	87.5%	1.4%	84.7%	90.2%
3-4	449	22	18	83.1%	1.6%	79.9%	86.2%
4-5	409	15	27	79.9%	1.7%	76.6%	83.3%
5-	367	31	336				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	172	10	14	93.9%	1.8%	90.5%	97.4%
1-2	148	9	9	88.0%	2.5%	83.2%	92.9%
2-3	130	4	7	85.3%	2.8%	79.9%	90.7%
3-4	119	8	6	79.4%	3.2%	73.1%	85.7%
4-5	105	5	7	75.5%	3.5%	68.7%	82.3%
5-	93	9	84				

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	1	0	66.7%	27.2%	13.3%	120.0%
1-2	2	0	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	1	66.7%	27.2%	13.3%	120.0%
4-5	1	0	0	66.7%	27.2%	13.3%	120.0%
5-	1	0	1				

MP

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	16	0	0	100.0%	0.0%	100.0%	100.0%
1-2	16	0	1	100.0%	0.0%	100.0%	100.0%
2-3	15	1	1	93.1%	6.4%	80.5%	105.7%
3-4	13	0	0	93.1%	6.4%	80.5%	105.7%
4-5	13	0	1	93.1%	6.4%	80.5%	105.7%
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

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	201	4	9	98.0%	1.0%	96.0%	99.9%
1-2	188	7	9	94.2%	1.7%	91.0%	97.5%
2-3	172	14	9	86.4%	2.5%	81.5%	91.2%
3-4	149	5	7	83.4%	2.7%	78.1%	88.7%
4-5	137	2	9	82.1%	2.8%	76.6%	87.6%
5-	126	5	121				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	286	10	14	96.4%	1.1%	94.3%	98.5%
1-2	262	18	12	89.6%	1.8%	86.1%	93.2%
2-3	232	18	6	82.6%	2.3%	78.1%	87.1%
3-4	208	10	9	78.5%	2.5%	73.6%	83.4%
4-5	189	6	16	75.9%	2.6%	70.8%	81.1%
5-	167	14	153				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	123	10	8	91.6%	2.5%	86.8%	96.4%
1-2	105	12	5	80.9%	3.6%	73.9%	87.9%
2-3	88	8	0	73.5%	4.1%	65.5%	81.5%
3-4	80	5	3	68.8%	4.3%	60.4%	77.3%
4-5	72	3	8	65.8%	4.4%	57.1%	74.5%
5-	61	4	57				

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	2	0	1	100.0%	0.0%	100.0%	100.0%
1-2	1	0	0	100.0%	0.0%	100.0%	100.0%
2-3	1	0	0	100.0%	0.0%	100.0%	100.0%
3-4	1	0	0	100.0%	0.0%	100.0%	100.0%
4-5	1	0	1	100.0%	0.0%	100.0%	100.0%
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	23	1	2	95.5%	4.2%	87.1%	103.8%
1-2	20	1	3	90.3%	6.1%	78.3%	102.3%
2-3	16	1	1	84.5%	7.9%	69.0%	100.0%
3-4	14	1	0	78.4%	9.4%	60.1%	96.8%
4-5	13	0	2	78.4%	9.4%	60.1%	96.8%
5-	11	0	11				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	38	1	2	97.3%	2.6%	92.2%	102.4%
1-2	35	3	3	88.6%	5.2%	78.5%	98.7%
2-3	29	5	0	73.3%	7.5%	58.5%	88.1%
3-4	24	0	1	73.3%	7.5%	58.5%	88.1%
4-5	23	2	1	66.8%	8.1%	50.9%	82.7%
5-	20	1	19				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	22	2	4	90.0%	6.1%	78.1%	101.9%
1-2	16	0	0	90.0%	6.1%	78.1%	101.9%
2-3	16	4	1	66.8%	10.6%	45.9%	87.6%
3-4	11	0	0	66.8%	10.6%	45.9%	87.6%
4-5	11	0	2	66.8%	10.6%	45.9%	87.6%
5-	9	1	8				

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	6	2	0	66.7%	19.2%	28.9%	104.4%
1-2	4	0	0	66.7%	19.2%	28.9%	104.4%
2-3	4	1	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	1	2				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	29	9	3	67.3%	8.4%	50.8%	83.7%
1-2	17	5	1	46.9%	9.4%	28.5%	65.3%
2-3	11	3	2	32.8%	8.9%	15.3%	50.3%
3-4	6	2	0	21.9%	8.7%	4.9%	38.9%
4-5	4	1	0	16.4%	8.1%	0.6%	32.2%
5-	3	2	1				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	18	5	0	72.2%	10.6%	51.5%	92.9%
1-2	13	2	1	60.7%	11.4%	38.3%	83.0%
2-3	10	2	0	48.5%	11.9%	25.2%	71.9%
3-4	8	0	1	48.5%	11.9%	25.2%	71.9%
4-5	7	0	0	48.5%	11.9%	25.2%	71.9%
5-	7	0	7				

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	102	3	9	96.9%	1.7%	93.6%	100.2%
1-2	90	0	6	96.9%	1.7%	93.6%	100.2%
2-3	84	1	2	95.8%	2.0%	91.8%	99.7%
3-4	81	0	15	95.8%	2.0%	91.8%	99.7%
4-5	66	1	11	94.2%	2.4%	89.4%	99.0%
5-	54	1	53				

SM

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	371	4	19	98.9%	0.5%	97.8%	99.9%
1-2	348	3	16	98.0%	0.7%	96.6%	99.4%
2-3	329	7	16	95.9%	1.1%	93.8%	97.9%
3-4	306	4	13	94.6%	1.2%	92.2%	97.0%
4-5	289	1	24	94.3%	1.2%	91.8%	96.7%
5-	264	11	253				

MP

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	488	13	24	97.3%	0.7%	95.8%	98.7%
1-2	451	5	20	96.2%	0.9%	94.5%	97.9%
2-3	426	7	17	94.6%	1.0%	92.5%	96.6%
3-4	402	10	11	92.2%	1.2%	89.7%	94.6%
4-5	381	7	30	90.4%	1.4%	87.7%	93.1%
5-	344	28	316				

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	611	17	37	97.1%	0.7%	95.8%	98.4%
1-2	557	13	28	94.8%	0.9%	93.0%	96.6%
2-3	516	11	13	92.8%	1.1%	90.7%	94.8%
3-4	492	9	12	91.0%	1.2%	88.7%	93.4%
4-5	471	24	34	86.2%	1.5%	83.4%	89.1%
5-	413	36	377				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	295	8	13	97.2%	0.9%	95.4%	99.1%
1-2	274	5	15	95.4%	1.2%	93.0%	97.8%
2-3	254	5	10	93.5%	1.5%	90.6%	96.3%
3-4	239	14	9	87.9%	2.0%	84.0%	91.8%
4-5	216	8	22	84.5%	2.2%	80.2%	88.8%
5-	186	24	162				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	74	7	4	90.3%	3.4%	83.6%	96.9%
1-2	63	4	6	84.3%	4.2%	76.0%	92.5%
2-3	53	4	2	77.8%	4.9%	68.1%	87.5%
3-4	47	3	0	72.8%	5.4%	62.2%	83.4%
4-5	44	4	3	66.0%	5.8%	54.6%	77.3%
5-	37	4	33				

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	0					
	1-2						
	2-3						
	3-4						
	4-5						
	5-						

SM	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	24	1	1	95.7%	4.1%	87.8% 103.7%
	1-2	22	0	1	95.7%	4.1%	87.8% 103.7%
	2-3	21	1	2	91.0%	5.9%	79.4% 102.5%
	3-4	18	1	1	85.8%	7.4%	71.2% 100.3%
	4-5	16	0	0	85.8%	7.4%	71.2% 100.3%
	5-	16	1	15			

MP	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	84	1	2	98.8%	1.2%	96.5% 101.1%
	1-2	81	1	4	97.5%	1.7%	94.2% 100.8%
	2-3	76	0	2	97.5%	1.7%	94.2% 100.8%
	3-4	74	3	2	93.5%	2.8%	88.1% 98.9%
	4-5	69	4	4	88.0%	3.7%	80.7% 95.2%
	5-	61	4	57			

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	417	8	28	98.0%	0.7%	96.7%	99.3%
1-2	381	16	21	93.8%	1.2%	91.4%	96.1%
2-3	344	17	19	89.0%	1.6%	85.9%	92.1%
3-4	308	20	6	83.2%	1.9%	79.4%	87.0%
4-5	282	13	18	79.2%	2.1%	75.1%	83.4%
5-	251	18	233				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	408	6	17	98.5%	0.6%	97.3%	99.7%
1-2	385	18	11	93.8%	1.2%	91.5%	96.2%
2-3	356	25	8	87.2%	1.7%	83.8%	90.5%
3-4	323	19	16	81.9%	2.0%	78.1%	85.7%
4-5	288	15	18	77.5%	2.1%	73.3%	81.7%
5-	255	27	228				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	100	8	6	91.8%	2.7%	86.4%	97.1%
1-2	86	5	3	86.3%	3.4%	79.6%	93.1%
2-3	78	8	2	77.4%	4.3%	69.0%	85.7%
3-4	68	3	4	73.8%	4.5%	65.0%	82.7%
4-5	61	4	3	68.9%	4.8%	59.4%	78.3%
5-	54	9	45				

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	5	0	1	100.0%	0.0%	100.0%	100.0%
1-2	4	0	0	100.0%	0.0%	100.0%	100.0%
2-3	4	0	0	100.0%	0.0%	100.0%	100.0%
3-4	4	0	0	100.0%	0.0%	100.0%	100.0%
4-5	4	0	1	100.0%	0.0%	100.0%	100.0%
5-	3	0	3				

MP

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	22	2	3	90.2%	6.1%	78.3%	102.2%
1-2	17	0	0	90.2%	6.1%	78.3%	102.2%
2-3	17	1	1	84.8%	7.7%	69.7%	99.8%
3-4	15	0	0	84.8%	7.7%	69.7%	99.8%
4-5	15	0	1	84.8%	7.7%	69.7%	99.8%
5-	14	2	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

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	97	5	4	94.7%	2.2%	90.3%	99.1%
1-2	88	6	10	87.9%	3.3%	81.5%	94.3%
2-3	72	3	4	84.1%	3.8%	76.8%	91.5%
3-4	65	4	3	78.8%	4.3%	70.4%	87.3%
4-5	58	7	6	68.8%	5.0%	58.9%	78.7%
5-	45	6	39				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	172	10	7	94.1%	1.8%	90.6%	97.6%
1-2	155	8	9	89.1%	2.4%	84.4%	93.7%
2-3	138	14	10	79.7%	3.1%	73.6%	85.8%
3-4	114	11	5	71.8%	3.6%	64.8%	78.8%
4-5	98	5	5	68.1%	3.7%	60.7%	75.4%
5-	88	9	79				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	66	5	5	92.1%	3.2%	85.8%	98.5%
1-2	56	5	8	83.3%	4.6%	74.3%	92.2%
2-3	43	4	3	75.2%	5.5%	64.4%	86.1%
3-4	36	2	1	71.0%	5.9%	59.3%	82.7%
4-5	33	1	2	68.8%	6.1%	56.8%	80.8%
5-	30	2	28				

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	0						
1-2							
2-3							
3-4							
4-5							
5-							

MP

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	2	0	0	100.0%	0.0%	100.0%	100.0%
1-2	2	0	0	100.0%	0.0%	100.0%	100.0%
2-3	2	0	0	100.0%	0.0%	100.0%	100.0%
3-4	2	0	0	100.0%	0.0%	100.0%	100.0%
4-5	2	0	0	100.0%	0.0%	100.0%	100.0%
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	24	2	1	91.5%	5.6%	80.5%	102.5%
1-2	21	4	3	72.7%	8.9%	55.3%	90.2%
2-3	14	1	1	67.3%	9.6%	48.4%	86.2%
3-4	12	4	2	42.8%	10.7%	21.9%	63.8%
4-5	6	1	1	35.1%	10.8%	13.8%	56.3%
5-	4	0	4				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	31	2	3	93.2%	4.4%	84.6%	101.8%
1-2	26	8	0	64.5%	9.0%	47.0%	82.1%
2-3	18	2	0	57.4%	9.3%	39.1%	75.6%
3-4	16	3	2	45.9%	9.3%	27.7%	64.0%
4-5	11	2	0	37.5%	9.3%	19.4%	55.7%
5-	9	1	8				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	23	3	1	86.7%	7.0%	72.9%	100.4%
1-2	19	3	0	73.0%	9.3%	54.7%	91.3%
2-3	16	3	0	59.3%	10.4%	38.9%	79.7%
3-4	13	0	0	59.3%	10.4%	38.9%	79.7%
4-5	13	2	1	49.8%	10.5%	29.1%	70.5%
5-	10	1	9				

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	4	0	0	100.0%	0.0%	100.0%	100.0%
1-2	4	0	0	100.0%	0.0%	100.0%	100.0%
2-3	4	1	0	75.0%	21.7%	32.6%	117.4%
3-4	3	1	0	50.0%	25.0%	1.0%	99.0%
4-5	2	0	0	50.0%	25.0%	1.0%	99.0%
5-	2	0	2				

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	17	4	0	76.5%	10.3%	56.3%	96.6%
1-2	13	1	0	70.6%	11.1%	48.9%	92.2%
2-3	12	1	0	64.7%	11.6%	42.0%	87.4%
3-4	11	3	0	47.1%	12.1%	23.3%	70.8%
4-5	8	1	0	41.2%	11.9%	17.8%	64.6%
5-	7	3	4				

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	12	1	2	90.9%	7.9%	75.4%	106.4%
1-2	9	2	0	70.7%	14.0%	43.2%	98.2%
2-3	7	0	0	70.7%	14.0%	43.2%	98.2%
3-4	7	2	0	50.5%	15.7%	19.8%	81.3%
4-5	5	0	1	50.5%	15.7%	19.8%	81.3%
5-	4	0	4				

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	280	5	37	98.1%	0.8%	96.5%	99.6%
1-2	238	3	7	96.8%	1.1%	94.8%	98.9%
2-3	228	3	16	95.5%	1.3%	93.0%	98.0%
3-4	209	4	21	93.6%	1.5%	90.6%	96.6%
4-5	184	3	13	92.0%	1.7%	88.6%	95.4%
5-	168	9	159				
sm							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	651	6	43	99.0%	0.4%	98.3%	99.8%
1-2	602	7	33	97.9%	0.6%	96.7%	99.0%
2-3	562	3	13	97.3%	0.6%	96.1%	98.6%
3-4	546	8	27	95.9%	0.8%	94.3%	97.5%
4-5	511	6	48	94.7%	0.9%	92.9%	96.5%
5-	457	20	437				
mp							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	503	10	37	97.9%	0.6%	96.7%	99.2%
1-2	456	6	25	96.6%	0.8%	95.0%	98.2%
2-3	425	4	12	95.7%	0.9%	93.9%	97.5%
3-4	409	4	15	94.7%	1.0%	92.7%	96.7%
4-5	390	9	40	92.4%	1.2%	90.0%	94.8%
5-	341	17	324				

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	1,379	35	78	97.4%	0.4%	96.6%	98.2%
1-2	1,266	33	72	94.8%	0.6%	93.6%	96.0%
2-3	1,161	26	51	92.6%	0.7%	91.2%	94.0%
3-4	1,084	35	45	89.6%	0.9%	87.9%	91.2%
4-5	1,004	21	92	87.6%	0.9%	85.8%	89.4%
5-	891	52	839				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	405	15	36	96.1%	0.9%	94.3%	98.0%
1-2	354	11	18	93.1%	1.3%	90.6%	95.5%
2-3	325	17	16	88.1%	1.7%	84.8%	91.3%
3-4	292	13	15	84.0%	1.9%	80.3%	87.8%
4-5	264	7	20	81.7%	2.0%	77.7%	85.7%
5-	237	20	217				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	132	9	6	93.0%	2.2%	88.7%	97.3%
1-2	117	6	6	88.1%	2.8%	82.6%	93.6%
2-3	105	7	2	82.2%	3.4%	75.6%	88.8%
3-4	96	2	2	80.5%	3.5%	73.6%	87.4%
4-5	92	4	10	76.8%	3.8%	69.4%	84.2%
5-	78	4	74				

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	3	1	0	66.7%	27.2%	13.3%	120.0%
1-2	2	0	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				

sm

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	40	0	2	100.0%	0.0%	100.0%	100.0%
1-2	38	1	2	97.3%	2.6%	92.2%	102.4%
2-3	35	0	0	97.3%	2.6%	92.2%	102.4%
3-4	35	0	3	97.3%	2.6%	92.2%	102.4%
4-5	32	0	2	97.3%	2.6%	92.2%	102.4%
5-	30	1	29				

mp

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	104	1	0	99.0%	1.0%	97.2%	100.9%
1-2	103	2	8	97.0%	1.6%	93.8%	100.3%
2-3	93	1	5	96.0%	1.9%	92.2%	99.7%
3-4	87	0	5	96.0%	1.9%	92.2%	99.7%
4-5	82	3	6	92.3%	2.7%	87.0%	97.6%
5-	73	7	66				

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/al

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	578	12	41	97.8%	0.6%	96.7%	99.0%
1-2	525	24	29	93.2%	1.1%	91.2%	95.3%
2-3	472	19	19	89.4%	1.3%	86.8%	92.0%
3-4	434	16	22	86.0%	1.5%	83.1%	89.0%
4-5	396	17	31	82.2%	1.7%	78.9%	85.5%
5-	348	19	329				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	264	14	15	94.5%	1.4%	91.8%	97.2%
1-2	235	20	15	86.2%	2.1%	82.1%	90.4%
2-3	200	14	11	80.0%	2.5%	75.1%	84.9%
3-4	175	15	4	73.1%	2.8%	67.5%	78.7%
4-5	156	14	10	66.3%	3.1%	60.3%	72.3%
5-	132	18	114				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	71	4	4	94.2%	2.7%	88.8%	99.6%
1-2	63	8	6	81.6%	4.6%	72.7%	90.6%
2-3	49	3	1	76.6%	5.1%	66.5%	86.6%
3-4	45	5	1	68.0%	5.8%	56.6%	79.3%
4-5	39	2	6	64.2%	6.0%	52.5%	75.9%
5-	31	1	30				

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	10	0	0	100.0%	0.0%	100.0% 100.0%
	1-2	10	0	0	100.0%	0.0%	100.0% 100.0%
	2-3	10	0	0	100.0%	0.0%	100.0% 100.0%
	3-4	10	0	2	100.0%	0.0%	100.0% 100.0%
	4-5	8	0	2	100.0%	0.0%	100.0% 100.0%
	5-	6	0	6			

mp	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	17	0	0	100.0%	0.0%	100.0% 100.0%
	1-2	17	0	1	100.0%	0.0%	100.0% 100.0%
	2-3	16	1	1	93.5%	6.0%	81.7% 105.4%
	3-4	14	0	1	93.5%	6.0%	81.7% 105.4%
	4-5	13	1	1	86.1%	8.9%	68.7% 103.4%
	5-	11	2	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	220	7	13	96.7%	1.2%	94.4%	99.0%
1-2	200	12	11	90.8%	2.0%	86.9%	94.6%
2-3	177	12	5	84.5%	2.5%	79.6%	89.4%
3-4	160	11	6	78.6%	2.9%	73.0%	84.2%
4-5	143	5	11	75.7%	3.0%	69.8%	81.7%
5-	127	8	119				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	119	11	7	90.5%	2.6%	85.3%	95.7%
1-2	101	8	4	83.2%	3.4%	76.4%	89.9%
2-3	89	11	2	72.8%	4.2%	64.6%	81.0%
3-4	76	6	6	66.8%	4.4%	58.1%	75.5%
4-5	64	3	5	63.5%	4.6%	54.6%	72.5%
5-	56	13	43				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	23	5	2	77.3%	8.5%	60.6%	93.9%
1-2	16	3	1	62.3%	10.1%	42.4%	82.2%
2-3	12	3	1	46.1%	10.7%	25.0%	67.1%
3-4	8	0	0	46.1%	10.7%	25.0%	67.1%
4-5	8	2	0	34.5%	10.7%	13.6%	55.5%
5-	6	1	5				

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	3	0	0	100.0%	0.0%	100.0%	100.0%
1-2	3	0	1	100.0%	0.0%	100.0%	100.0%
2-3	2	0	0	100.0%	0.0%	100.0%	100.0%
3-4	2	0	0	100.0%	0.0%	100.0%	100.0%
4-5	2	1	0	50.0%	35.4%	-19.3%	119.3%
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

ss/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	33	0	6	100.0%	0.0%	100.0%	100.0%
1-2	27	2	2	92.3%	5.0%	82.5%	102.2%
2-3	23	0	1	92.3%	5.0%	82.5%	102.2%
3-4	22	1	0	88.1%	6.3%	75.7%	100.5%
4-5	21	1	0	83.9%	7.3%	69.7%	98.2%
5-	20	2	18				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	32	0	3	100.0%	0.0%	100.0%	100.0%
1-2	29	3	2	89.3%	5.6%	78.2%	100.3%
2-3	24	9	0	55.8%	9.5%	37.2%	74.4%
3-4	15	2	1	48.1%	9.5%	29.4%	66.8%
4-5	12	0	1	48.1%	9.5%	29.4%	66.8%
5-	11	1	10				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	11	1	2	90.0%	8.6%	73.2%	106.8%
1-2	8	0	0	90.0%	8.6%	73.2%	106.8%
2-3	8	2	0	67.5%	15.2%	37.7%	97.3%
3-4	6	0	1	67.5%	15.2%	37.7%	97.3%
4-5	5	0	0	67.5%	15.2%	37.7%	97.3%
5-	5	1	4				

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	1	0	0	100.0%	0.0%	100.0%	100.0%
	1-2	1	0	1	100.0%	0.0%	100.0%	100.0%
	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	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	19	2	2	88.9%	7.0%	75.2%	102.6%
1-2	15	8	0	41.5%	11.9%	18.1%	64.8%
2-3	7	2	0	29.6%	11.1%	7.9%	51.3%
3-4	5	1	0	23.7%	10.3%	3.5%	43.9%
4-5	4	0	0	23.7%	10.3%	3.5%	43.9%
5-	4	1	3				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	15	5	1	65.5%	12.0%	42.1%	89.0%
1-2	9	2	3	48.0%	12.3%	24.0%	72.1%
2-3	4	0	1	48.0%	12.3%	24.0%	72.1%
3-4	3	0	0	48.0%	12.3%	24.0%	72.1%
4-5	3	1	0	32.0%	15.4%	1.8%	62.3%
5-	2	0	2				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	9	4	0	55.6%	16.6%	23.1%	88.0%
1-2	5	2	0	33.3%	15.7%	2.5%	64.1%
2-3	3	2	0	11.1%	10.5%	-9.4%	31.6%
3-4	1	0	1	11.1%	10.5%	-9.4%	31.6%
4-5	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	122	4	12	96.6%	1.6%	93.4%	99.7%
1-2	106	0	7	96.6%	1.6%	93.4%	99.7%
2-3	99	1	3	95.6%	1.9%	91.9%	99.2%
3-4	95	0	12	95.6%	1.9%	91.9%	99.2%
4-5	83	1	5	94.4%	2.2%	90.1%	98.6%
5-	77	2	75				

sm

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	361	3	18	99.1%	0.5%	98.2%	100.1%
1-2	340	3	17	98.3%	0.7%	96.9%	99.6%
2-3	320	6	13	96.4%	1.0%	94.4%	98.3%
3-4	301	7	12	94.1%	1.3%	91.6%	96.6%
4-5	282	4	18	92.7%	1.4%	89.9%	95.5%
5-	260	13	247				

mp

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	477	19	28	95.9%	0.9%	94.1%	97.6%
1-2	430	5	19	94.8%	1.0%	92.8%	96.7%
2-3	406	3	12	94.0%	1.1%	91.9%	96.2%
3-4	391	11	14	91.4%	1.3%	88.8%	93.9%
4-5	366	3	28	90.6%	1.4%	87.9%	93.3%
5-	335	26	309				

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/al

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	719	10	42	98.6%	0.4%	97.7%	99.4%
1-2	667	19	39	95.7%	0.8%	94.2%	97.2%
2-3	609	6	27	94.7%	0.8%	93.1%	96.4%
3-4	576	11	10	92.9%	1.0%	90.9%	94.8%
4-5	555	26	41	88.4%	1.3%	85.9%	90.8%
5-	488	41	447				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	268	5	13	98.1%	0.8%	96.5%	99.7%
1-2	250	6	15	95.7%	1.2%	93.2%	98.1%
2-3	229	10	8	91.4%	1.8%	88.0%	94.8%
3-4	211	14	15	85.1%	2.3%	80.7%	89.6%
4-5	182	9	15	80.7%	2.5%	75.7%	85.7%
5-	158	20	138				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	64	6	4	90.3%	3.6%	83.2%	97.4%
1-2	54	1	4	88.6%	3.9%	80.9%	96.3%
2-3	49	6	1	77.6%	5.4%	67.1%	88.2%
3-4	42	1	2	75.7%	5.6%	64.8%	86.6%
4-5	39	2	3	71.7%	5.9%	60.1%	83.3%
5-	34	7	27				

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	47	0	1	100.0%	0.0%	100.0%	100.0%
1-2	46	0	5	100.0%	0.0%	100.0%	100.0%
2-3	41	0	4	100.0%	0.0%	100.0%	100.0%
3-4	37	2	3	94.4%	3.7%	87.1%	101.6%
4-5	32	0	2	94.4%	3.7%	87.1%	101.6%
5-	30	2	28				

mp

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	113	3	3	97.3%	1.5%	94.3%	100.3%
1-2	107	3	3	94.5%	2.1%	90.4%	98.7%
2-3	101	0	3	94.5%	2.1%	90.4%	98.7%
3-4	98	3	4	91.6%	2.6%	86.4%	96.8%
4-5	91	1	3	90.6%	2.8%	85.1%	96.1%
5-	87	6	81				

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	411	9	19	97.8%	0.7%	96.3%	99.2%
1-2	383	12	17	94.6%	1.1%	92.4%	96.8%
2-3	354	22	15	88.6%	1.6%	85.5%	91.8%
3-4	317	17	10	83.8%	1.9%	80.1%	87.5%
4-5	290	18	19	78.4%	2.1%	74.3%	82.6%
5-	253	24	229				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	247	4	12	98.3%	0.8%	96.8%	99.9%
1-2	231	7	16	95.3%	1.4%	92.6%	97.9%
2-3	208	15	10	88.2%	2.1%	84.1%	92.4%
3-4	183	15	10	80.8%	2.6%	75.6%	85.9%
4-5	158	12	11	74.4%	3.0%	68.6%	80.2%
5-	135	18	117				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	34	9	4	71.9%	7.4%	57.4%	86.4%
1-2	21	6	1	50.8%	8.8%	33.7%	68.0%
2-3	14	2	0	43.6%	8.9%	26.2%	61.0%
3-4	12	2	0	36.3%	8.8%	19.1%	53.5%
4-5	10	0	0	36.3%	8.8%	19.1%	53.5%
5-	10	0	10				

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	1	0	0	100.0%	0.0%	100.0%	100.0%
1-2	1	0	0	100.0%	0.0%	100.0%	100.0%
2-3	1	0	1	100.0%	0.0%	100.0%	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	7	0	0	100.0%	0.0%	100.0%	100.0%
1-2	7	0	0	100.0%	0.0%	100.0%	100.0%
2-3	7	0	0	100.0%	0.0%	100.0%	100.0%
3-4	7	0	0	100.0%	0.0%	100.0%	100.0%
4-5	7	0	0	100.0%	0.0%	100.0%	100.0%
5-	7	0	7				

mp

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	31	1	4	96.6%	3.2%	90.3%	102.8%
1-2	26	0	1	96.6%	3.2%	90.3%	102.8%
2-3	25	2	0	88.8%	6.0%	77.1%	100.6%
3-4	23	1	0	85.0%	6.9%	71.5%	98.4%
4-5	22	0	2	85.0%	6.9%	71.5%	98.4%
5-	20	4	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

ss/al

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	127	5	6	96.0%	1.7%	92.6%	99.3%
1-2	116	8	5	89.2%	2.8%	83.8%	94.6%
2-3	103	5	7	84.7%	3.2%	78.4%	91.1%
3-4	91	9	1	76.3%	3.9%	68.6%	84.0%
4-5	81	8	3	68.6%	4.3%	60.1%	77.1%
5-	70	7	63				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	145	10	11	92.8%	2.1%	88.7%	96.9%
1-2	124	11	6	84.4%	3.0%	78.4%	90.3%
2-3	107	17	4	70.7%	3.9%	63.1%	78.4%
3-4	86	6	0	65.8%	4.1%	57.7%	73.9%
4-5	80	11	5	56.5%	4.3%	47.9%	65.0%
5-	64	9	55				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	11	2	0	81.8%	11.6%	59.0%	104.6%
1-2	9	0	1	81.8%	11.6%	59.0%	104.6%
2-3	8	4	0	40.9%	15.6%	10.4%	71.5%
3-4	4	0	0	40.9%	15.6%	10.4%	71.5%
4-5	4	0	1	40.9%	15.6%	10.4%	71.5%
5-	3	1	2				

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	0	100.0%	0.0%	100.0%	100.0%
1-2	1	0	0	100.0%	0.0%	100.0%	100.0%
2-3	1	0	0	100.0%	0.0%	100.0%	100.0%
3-4	1	0	0	100.0%	0.0%	100.0%	100.0%
4-5	1	0	0	100.0%	0.0%	100.0%	100.0%
5-	1	0	1				

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	5	0	0	100.0%	0.0%	100.0%	100.0%
1-2	5	1	0	80.0%	17.9%	44.9%	115.1%
2-3	4	1	1	57.1%	20.9%	16.2%	98.0%
3-4	2	0	0	57.1%	20.9%	16.2%	98.0%
4-5	2	0	0	57.1%	20.9%	16.2%	98.0%
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	27	0	1	100.0%	0.0%	100.0%	100.0%
1-2	26	2	3	91.8%	5.2%	81.6%	102.0%
2-3	21	1	0	87.5%	6.5%	74.7%	100.3%
3-4	20	4	1	69.5%	9.3%	51.2%	87.8%
4-5	15	1	2	64.6%	9.8%	45.4%	83.7%
5-	12	3	9				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	37	3	1	91.8%	4.5%	83.0%	100.6%
1-2	33	8	1	69.2%	7.6%	54.3%	84.1%
2-3	24	3	1	60.4%	8.1%	44.5%	76.2%
3-4	20	3	5	50.0%	8.2%	33.9%	66.1%
4-5	12	2	0	41.7%	8.7%	24.6%	58.7%
5-	10	2	8				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	15	4	2	71.4%	11.1%	49.6%	93.2%
1-2	9	4	0	39.7%	13.3%	13.5%	65.8%
2-3	5	2	0	23.8%	11.8%	0.6%	47.0%
3-4	3	0	0	23.8%	11.8%	0.6%	47.0%
4-5	3	1	0	15.9%	10.2%	-4.1%	35.9%
5-	2	0	2				

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

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/al

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	13	2	0	84.6%	10.0%	65.0%	104.2%
1-2	11	2	2	67.7%	12.5%	43.2%	92.2%
2-3	7	1	1	57.3%	13.8%	30.2%	84.3%
3-4	5	3	0	22.9%	13.7%	-4.0%	49.8%
4-5	2	0	0	22.9%	13.7%	-4.0%	49.8%
5-	2	1	1				

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	13	4	0	69.2%	12.8%	44.1%	94.3%
1-2	9	0	0	69.2%	12.8%	44.1%	94.3%
2-3	9	1	1	61.1%	13.4%	34.8%	87.3%
3-4	7	3	0	34.9%	13.8%	8.0%	61.9%
4-5	4	0	0	34.9%	13.8%	8.0%	61.9%
5-	4	1	3				

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	7	2	0	71.4%	17.1%	38.0%	104.9%
1-2	5	3	0	28.6%	17.1%	-4.9%	62.0%
2-3	2	0	0	28.6%	17.1%	-4.9%	62.0%
3-4	2	1	0	14.3%	13.2%	-11.6%	40.2%
4-5	1	0	0	14.3%	13.2%	-11.6%	40.2%
5-	1	0	1				

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

H0							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	5,988	266	390	95.4%	0.3%	94.9%	95.9%
1-2	5,332	262	282	90.6%	0.4%	89.9%	91.3%
2-3	4,788	219	195	86.4%	0.5%	85.5%	87.3%
3-4	4,374	161	214	83.1%	0.5%	82.1%	84.1%
4-5	3,999	120	369	80.5%	0.5%	79.4%	81.5%
5-	3,510	221	3,289				

H1							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	270	42	24	83.7%	2.2%	79.4%	88.0%
1-2	204	34	9	69.5%	2.8%	63.9%	75.0%
2-3	161	29	4	56.8%	3.1%	50.7%	62.9%
3-4	128	19	2	48.3%	3.2%	42.0%	54.6%
4-5	107	18	9	39.8%	3.2%	33.6%	46.0%
5-	80	10	70				

H2							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	161	39	17	74.4%	3.3%	67.9%	80.9%
1-2	105	28	7	53.9%	4.0%	46.1%	61.7%
2-3	70	21	2	37.5%	4.0%	29.6%	45.4%
3-4	47	6	2	32.6%	4.0%	24.9%	40.3%
4-5	39	7	2	26.6%	3.8%	19.2%	34.0%
5-	30	7	23				

H3							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	426	180	38	55.8%	2.3%	51.2%	60.3%
1-2	208	82	13	33.1%	2.3%	28.6%	37.6%
2-3	113	46	11	18.9%	2.0%	15.0%	22.8%
3-4	56	25	5	10.1%	1.6%	6.9%	13.2%
4-5	26	9	0	6.6%	1.4%	3.8%	9.4%
5-	17	3	14				

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	3,970	167	221	95.7%	0.3%	95.0%	96.3%
1-2	3,582	155	185	91.4%	0.4%	90.6%	92.3%
2-3	3,242	170	127	86.5%	0.6%	85.5%	87.6%
3-4	2,945	146	118	82.2%	0.6%	80.9%	83.4%
4-5	2,681	121	217	78.3%	0.7%	77.0%	79.6%
5-	2,343	203	2,140				

H1

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	163	27	12	82.8%	2.9%	77.1%	88.5%
1-2	124	24	6	66.4%	3.7%	59.1%	73.7%
2-3	94	15	7	55.4%	4.0%	47.6%	63.2%
3-4	72	11	3	46.7%	4.1%	38.7%	54.8%
4-5	58	11	2	37.7%	4.1%	29.7%	45.7%
5-	45	7	38				

H2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	90	28	6	67.8%	4.8%	58.4%	77.2%
1-2	56	12	10	51.9%	5.2%	41.8%	62.0%
2-3	34	12	3	32.7%	5.3%	22.4%	43.0%
3-4	19	4	1	25.6%	5.1%	15.6%	35.7%
4-5	14	1	0	23.8%	5.1%	13.9%	33.8%
5-	13	4	9				

H3

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	190	77	19	57.3%	3.4%	50.6%	64.1%
1-2	94	39	4	33.0%	3.5%	26.2%	39.9%
2-3	51	18	4	20.9%	3.1%	14.8%	26.9%
3-4	29	15	1	9.9%	2.4%	5.2%	14.6%
4-5	13	3	1	7.5%	2.2%	3.3%	11.7%
5-	9	1	8				

Table 90-1
 Peritoneal metastasis (synchronous)
 Colon cancer, surgical cases

P0							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	6,433	343	437	94.5%	0.3%	93.9%	95.0%
1-2	5,653	324	303	88.9%	0.4%	88.1%	89.7%
2-3	5,026	273	204	84.0%	0.5%	83.1%	84.9%
3-4	4,549	197	220	80.3%	0.5%	79.3%	81.3%
4-5	4,132	148	381	77.2%	0.5%	76.2%	78.3%
5-	3,603	236	3,367				
P1							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	155	59	14	60.1%	3.8%	52.7%	67.6%
1-2	82	24	2	42.3%	4.0%	34.4%	50.2%
2-3	56	17	5	28.9%	3.7%	21.5%	36.2%
3-4	34	6	3	23.5%	3.6%	16.5%	30.6%
4-5	25	3	0	20.7%	3.5%	13.9%	27.6%
5-	22	2	20				
P2							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	91	32	2	64.4%	5.0%	54.7%	74.2%
1-2	57	20	9	39.9%	5.0%	30.2%	49.6%
2-3	28	11	1	23.9%	4.7%	14.7%	33.1%
3-4	16	5	0	16.5%	4.3%	8.1%	24.8%
4-5	11	0	2	16.5%	4.3%	8.1%	24.8%
5-	9	2	7				
P3							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	168	93	14	42.2%	3.6%	35.1%	49.3%
1-2	61	38	2	15.5%	2.9%	9.9%	21.1%
2-3	21	10	2	7.7%	2.2%	3.5%	12.0%
3-4	9	3	0	5.2%	1.9%	1.5%	8.9%
4-5	6	3	1	2.3%	1.3%	-0.2%	4.9%
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	4,304	260	241	93.8%	0.4%	93.1%	94.5%
1-2	3,803	202	201	88.7%	0.5%	87.7%	89.6%
2-3	3,400	207	139	83.2%	0.6%	82.0%	84.3%
3-4	3,054	169	123	78.5%	0.6%	77.2%	79.7%
4-5	2,762	130	219	74.6%	0.7%	73.3%	76.0%
5-	2,413	215	2,198				

P1

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	58	20	5	64.0%	6.1%	52.0%	75.9%
1-2	33	13	2	38.0%	6.4%	25.4%	50.6%
2-3	18	6	1	25.0%	5.9%	13.3%	36.6%
3-4	11	5	0	13.6%	5.0%	3.9%	23.3%
4-5	6	3	0	6.8%	3.7%	-0.5%	14.1%
5-	3	0	3				

P2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	22	6	5	69.2%	9.0%	51.5%	86.9%
1-2	11	6	0	31.5%	11.2%	9.6%	53.4%
2-3	5	2	1	17.5%	8.9%	0.0%	34.9%
3-4	2	1	0	8.7%	7.6%	-6.2%	23.7%
4-5	1	0	0	8.7%	7.6%	-6.2%	23.7%
5-	1	0	1				

P3

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	24	10	3	55.6%	9.6%	36.8%	74.3%
1-2	11	8	0	15.2%	7.9%	-0.3%	30.6%
2-3	3	1	0	10.1%	6.7%	-3.0%	23.2%
3-4	2	0	0	10.1%	6.7%	-3.0%	23.2%
4-5	2	1	1	3.4%	3.3%	-3.0%	9.8%
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	6,460	452	433	92.8%	0.3%	92.1%	93.4%
1-2	5,575	353	301	86.7%	0.4%	85.9%	87.6%
2-3	4,921	266	200	81.9%	0.5%	81.0%	82.9%
3-4	4,455	195	214	78.3%	0.5%	77.2%	79.3%
4-5	4,046	143	372	75.4%	0.6%	74.3%	76.5%
5-	3,531	233	3,298				

PM1							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	94	27	11	69.5%	4.6%	60.6%	78.4%
1-2	56	11	3	55.5%	5.2%	45.4%	65.6%
2-3	42	10	1	42.1%	5.3%	31.6%	52.6%
3-4	31	7	1	32.4%	5.2%	22.3%	42.6%
4-5	23	4	3	26.4%	4.9%	16.8%	36.0%
5-	16	2	14				

PM2							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	22	10	1	53.5%	10.4%	33.1%	73.9%
1-2	11	3	0	38.9%	10.4%	18.4%	59.4%
2-3	8	4	0	19.5%	8.6%	2.5%	36.4%
3-4	4	3	0	4.9%	4.7%	-4.4%	14.1%
4-5	1	0	0	4.9%	4.7%	-4.4%	14.1%
5-	1	1	0				

PM3							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	61	18	6	69.0%	5.7%	57.8%	80.2%
1-2	37	16	2	38.3%	6.3%	25.9%	50.8%
2-3	19	7	2	23.4%	5.6%	12.3%	34.5%
3-4	10	1	1	20.9%	5.5%	10.1%	31.8%
4-5	8	4	0	10.5%	4.6%	1.4%	19.5%
5-	4	1	3				

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	4,155	238	233	94.1%	0.4%	93.4%	94.8%
1-2	3,684	201	195	88.8%	0.5%	87.9%	89.8%
2-3	3,288	178	131	83.9%	0.6%	82.8%	85.1%
3-4	2,979	158	120	79.4%	0.6%	78.1%	80.7%
4-5	2,701	132	214	75.3%	0.7%	74.0%	76.7%
5-	2,355	206	2,149				

PM1

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	58	19	6	65.5%	6.0%	53.7%	77.2%
1-2	33	7	3	50.9%	6.6%	38.1%	63.7%
2-3	23	9	1	30.5%	6.4%	17.9%	43.2%
3-4	13	2	1	25.7%	6.2%	13.5%	37.8%
4-5	10	1	1	23.0%	6.1%	11.1%	34.8%
5-	8	2	6				

PM2

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	21	8	3	59.0%	10.1%	39.2%	78.8%
1-2	10	4	0	35.4%	11.0%	13.9%	56.9%
2-3	6	1	0	29.5%	10.6%	8.7%	50.3%
3-4	5	2	1	16.4%	8.4%	-0.1%	32.8%
4-5	2	0	0	16.4%	8.4%	-0.1%	32.8%
5-	2	0	2				

PM3

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	55	20	8	60.8%	6.2%	48.6%	72.9%
1-2	27	12	2	32.7%	6.5%	19.9%	45.6%
2-3	13	3	2	24.5%	6.2%	12.5%	36.6%
3-4	8	6	0	6.1%	4.1%	-1.8%	14.1%
4-5	2	1	0	3.1%	3.0%	-2.8%	8.9%
5-	1	0	1				

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

M(-)

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	6,540	443	453	93.0%	0.3%	92.4%	93.6%
1-2	5,644	355	302	87.0%	0.4%	86.2%	87.8%
2-3	4,987	292	202	81.8%	0.5%	80.8%	82.7%
3-4	4,493	201	203	78.0%	0.5%	77.0%	79.1%
4-5	4,089	143	360	75.2%	0.6%	74.1%	76.3%
5-	3,586	235	3,351				

M(+)

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	144	61	10	56.1%	4.0%	48.3%	64.0%
1-2	73	31	5	31.4%	3.9%	23.8%	39.0%
2-3	37	8	6	24.0%	3.6%	16.9%	31.1%
3-4	23	3	2	20.8%	3.5%	13.8%	27.7%
4-5	18	3	0	17.3%	3.5%	10.5%	24.1%
5-	15	2	13				

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	4,244	249	249	94.0%	0.4%	93.2%	94.7%
1-2	3,746	207	202	88.6%	0.5%	87.7%	89.6%
2-3	3,337	202	139	83.1%	0.6%	82.0%	84.3%
3-4	2,996	160	114	78.6%	0.7%	77.3%	79.9%
4-5	2,722	128	199	74.8%	0.7%	73.4%	76.1%
5-	2,395	214	2,181				

M(+)

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	84	32	4	61.0%	5.2%	50.7%	71.2%
1-2	48	13	2	44.1%	5.4%	33.5%	54.7%
2-3	33	6	2	35.8%	5.3%	25.5%	46.2%
3-4	25	9	0	22.9%	4.8%	13.5%	32.4%
4-5	16	4	2	16.8%	4.3%	8.4%	25.2%
5-	10	0	10				

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	223	2	53	99.0%	0.6%	97.7%	100.2%
1-2	168	2	20	97.7%	1.0%	95.7%	99.8%
2-3	146	1	14	97.0%	1.2%	94.6%	99.4%
3-4	131	2	12	95.5%	1.6%	92.4%	98.6%
4-5	117	4	18	91.9%	2.2%	87.6%	96.3%
5-	95	9	86				
Males							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	143	2	30	98.4%	1.0%	96.5%	100.4%
1-2	111	2	13	96.6%	1.6%	93.5%	99.6%
2-3	96	1	8	95.5%	1.8%	91.9%	99.1%
3-4	87	1	7	94.4%	2.1%	90.2%	98.5%
4-5	79	3	13	90.5%	2.9%	84.8%	96.1%
5-	63	7	56				
Females							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	80	0	23	100.0%	0.0%	100.0%	100.0%
1-2	57	0	7	100.0%	0.0%	100.0%	100.0%
2-3	50	0	6	100.0%	0.0%	100.0%	100.0%
3-4	44	1	5	97.6%	2.2%	93.2%	102.0%
4-5	38	1	5	94.8%	3.3%	88.3%	101.4%
5-	32	2	30				

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	34	2	8	93.3%	4.0%	85.5%	101.2%
1-2	24	0	2	93.3%	4.0%	85.5%	101.2%
2-3	22	1	3	88.8%	5.6%	77.8%	99.8%
3-4	18	1	3	83.4%	7.1%	69.5%	97.3%
4-5	14	0	3	83.4%	7.1%	69.5%	97.3%
5-	11	2	9				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	22	2	5	89.7%	6.1%	77.9%	101.6%
1-2	15	0	1	89.7%	6.1%	77.9%	101.6%
2-3	14	1	1	83.1%	8.3%	66.8%	99.4%
3-4	12	1	3	75.2%	10.0%	55.6%	94.7%
4-5	8	0	1	75.2%	10.0%	55.6%	94.7%
5-	7	2	5				

Females

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	12	0	3	100.0%	0.0%	100.0%	100.0%
1-2	9	0	1	100.0%	0.0%	100.0%	100.0%
2-3	8	0	2	100.0%	0.0%	100.0%	100.0%
3-4	6	0	0	100.0%	0.0%	100.0%	100.0%
4-5	6	0	2	100.0%	0.0%	100.0%	100.0%
5-	4	0	4				

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	81	0	26	100.0%	0.0%	100.0%	100.0%
1-2	55	0	5	100.0%	0.0%	100.0%	100.0%
2-3	50	1	6	97.9%	2.0%	94.0%	101.7%
3-4	43	1	3	95.5%	3.0%	89.7%	101.3%
4-5	39	0	4	95.5%	3.0%	89.7%	101.3%
5-	35	1	34				

Males							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	54	0	18	100.0%	0.0%	100.0%	100.0%
1-2	36	0	3	100.0%	0.0%	100.0%	100.0%
2-3	33	1	4	96.8%	3.0%	90.9%	102.6%
3-4	28	1	1	93.3%	4.4%	84.5%	102.0%
4-5	26	0	2	93.3%	4.4%	84.5%	102.0%
5-	24	0	24				

Females							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	27	0	8	100.0%	0.0%	100.0%	100.0%
1-2	19	0	2	100.0%	0.0%	100.0%	100.0%
2-3	17	0	2	100.0%	0.0%	100.0%	100.0%
3-4	15	0	2	100.0%	0.0%	100.0%	100.0%
4-5	13	0	2	100.0%	0.0%	100.0%	100.0%
5-	11	1	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	14	0	3	100.0%	0.0%	100.0%	100.0%
1-2	11	1	1	90.5%	8.6%	73.6%	107.4%
2-3	9	0	0	90.5%	8.6%	73.6%	107.4%
3-4	9	0	1	90.5%	8.6%	73.6%	107.4%
4-5	8	0	1	90.5%	8.6%	73.6%	107.4%
5-	7	1	6				

Males

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	9	0	1	100.0%	0.0%	100.0%	100.0%
1-2	8	1	1	86.7%	11.6%	64.0%	109.4%
2-3	6	0	0	86.7%	11.6%	64.0%	109.4%
3-4	6	0	0	86.7%	11.6%	64.0%	109.4%
4-5	6	0	0	86.7%	11.6%	64.0%	109.4%
5-	6	0	6				

Females

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

Table 94(a)
 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	6,358	488	419	92.1%	0.3%	91.4%	92.7%
1-2	5,451	372	296	85.6%	0.4%	84.7%	86.5%
2-3	4,783	284	193	80.4%	0.5%	79.4%	81.4%
3-4	4,306	202	202	76.6%	0.5%	75.5%	77.6%
4-5	3,902	140	356	73.7%	0.6%	72.6%	74.8%
5-	3,406	231	3,175				

Rectal cancer							
Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	4,036	268	221	93.2%	0.4%	92.4%	93.9%
1-2	3,547	212	194	87.4%	0.5%	86.4%	88.5%
2-3	3,141	201	119	81.7%	0.6%	80.5%	83.0%
3-4	2,821	163	114	76.9%	0.7%	75.6%	78.3%
4-5	2,544	125	207	73.0%	0.7%	71.6%	74.4%
5-	2,212	206	2,006				

※一般解析に採用されたレコードの90%以上が生存分析に用いられた施設に限定

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 94(b)

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

Colon cancer

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	2,005	171	19	91.4%	0.6%	90.2%	92.7%
1-2	1,815	143	9	84.2%	0.8%	82.6%	85.8%
2-3	1,663	117	6	78.3%	0.9%	76.5%	80.1%
3-4	1,540	83	30	74.0%	1.0%	72.1%	75.9%
4-5	1,427	59	61	70.9%	1.0%	68.9%	72.9%
5-	1,307	121	1,186				

Rectal cancer

Year	Alive	Died	Lost	SR	SE	95%CI	
0-1	1,383	113	5	91.8%	0.7%	90.4%	93.3%
1-2	1,265	71	4	86.7%	0.9%	84.9%	88.4%
2-3	1,190	78	9	81.0%	1.1%	78.9%	83.0%
3-4	1,103	70	11	75.8%	1.2%	73.5%	78.0%
4-5	1,022	42	40	72.6%	1.2%	70.3%	75.0%
5-	940	115	825				

※生存分析に採用されたレコードの90%以上で5年以上フォローアップされていた施設に限定

Participating institutes

相澤病院 外科
愛知県がんセンター中央病院 消化器外科
旭川医科大学 消化器・血液腫瘍内科
茨城県立中央病院 外科
大阪中央病院 外科
大阪府済生会野江病院
大阪府立急性期・総合医療センター 外科
大阪府立成人病センター 消化器外科
大阪労災病院 外科
岡山大学 腫瘍・胸部外科
岡山大学 消化器・腫瘍外科
香川大学 消化器外科
鹿児島大学 腫瘍制御学・消化器外科学
金沢医科大学 一般消化器外科
金沢大学 心肺・総合外科
がん・感染症センター都立駒込病院 大腸外科
京都大学 消化管外科
京都府立医科大学 消化器外科
杏林大学 消化器一般外科
近畿大学 外科学教室
倉敷中央病院 外科
久留米大学医療センター 外科
久留米大学 外科
慶應義塾大学 外科
神戸大学 食道胃腸外科
国立がん研究センター中央病院
国立がん研究センター東病院 大腸外科
国立国際医療研究センター 外科
国立病院機構 岩国医療センター
国立病院機構 霞ヶ浦医療センター
国立病院機構 九州医療センター 外科
国立病院機構 九州がんセンター 消化器外科
国立病院機構 埼玉病院
国立病院機構 北海道がんセンター 外科
札幌医科大学 第1外科
札幌社会保険総合病院 外科
J Aとりで総合医療センター 外科
滋賀医科大学 外科学講座
静岡県立静岡がんセンター 大腸外科
自治医科大学 消化器内科

昭和大学藤が丘病院 外科
市立堺病院
市立吹田市民病院
市立函館病院消化器病センター 消化器外科
大腸肛門病センター 高野病院
千葉県がんセンター 消化器外科
千葉大学 先端応用外科学
帝京大学医学部附属溝口病院 外科
帝京大学 外科
帝京大学ちば総合医療センター 外科
東京医科歯科大学 腫瘍外科
東京医科大学 外科学第3講座
東京都保険医療公社大久保病院 外科
東邦大学医療センター大橋病院 外科
徳島大学 消化器移植外科
栃木県立がんセンター
獨協医科大学 第1外科
名古屋市立大学 消化器外科
名古屋大学 消化器外科
奈良県立医科大学 消化器・総合外科学
南風病院
新潟大学 消化器・一般外科学分野
西宮市立中央病院 外科
兵庫医科大学 外科
弘前大学 消化器外科
福井県済生会
福井大学 第1外科
福島県立医科大学 器官制御外科
福島県立医科大学 臓器再生外科
藤枝市立総合病院 外科
不二越病院 外科
藤田保健衛生大学 下部消化管外科
藤田保健衛生大学第二教育病院 外科
ベルランド総合病院 外科
防衛医科大学校 外科
北海道大学 消化器外科
松下記念病院 外科
松田病院 胃腸・肛門科
松波総合病院
三重大学 消化管・小児外科学
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りんくう総合医療センター 外科

2000-2002年治療例の報告書「Multi-institutional Registry of Large Bowel Cancer in Japan. Vol.29 Cases treated in 2000-2002」の Table 71（76ページ）に集計の誤りがありましたので下記のように訂正させていただきます。

Table 71
Lung metastasis for surgical cases

Site	LM0	LM1	LM2	LM3	LMX	Missing	Total
V	47	0	0	0	0	6	53
C	900	9	0	8	24	57	998
A	1,875	30	6	10	51	102	2,074
T	1,251	15	1	3	35	79	1,384
D	646	6	1	8	12	43	716
S	3,508	57	8	20	72	215	3,880
Rs	1,679	29	3	16	42	94	1,863
Ra	1,526	32	4	15	49	95	1,721
Rb	2,140	32	10	14	67	125	2,388
P	73	2	0	2	2	6	85
Total	13,645	212	33	96	354	822	15,162

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