

**Multi-Institutional Registry of Large Bowel Cancer
in Japan**

Vol. 18

**Cases treated in 1996
(Prospective Registry Data)**

Japanese Society for Cancer of the Colon and Rectum

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PREFACE

This, the eighteenth report of the 'Multi-institutional Registry of Large Bowel cancer in Japan,' is composed of clinical and pathological information on the patients treated in the year 1996.

In this series, of a total of 7879 patients on file in 126 member institutes of Japanese Society of Cancer of Colon and Rectum (JSCCR), 7716 were found to have undergone treatment for histologically confirmed colorectal malignancies. All contents and items reported herein were revised according to the changes in the general rule on colorectal cancer (1,2), and were identical to that of the latest report (Vol.17).

It is our hope that this report will be use extensively in daily clinical activities and studies on colorectal cancer. The Registry Committee of JSCCR welcomes comments from readers.

This work was supported in part by a Grant-in Aid for Cancer Research from the Ministry of Health and Welfare of Japan.

April 2000

Yasuo Koyama, M.D.
Chairman of the Registry Committee
Japanese Society for Cancer of the Colon and Rectum

- 1) Japanese Society for Cancer of the Colon and Rectum: General Rules for Clinical and Pathological Studies on Cancer of the Colon, Rectum and Anus. 6th ed., Kanehara & Co., Ltd., Tokyo, 1998
- 2) Japanese Society for Cancer of the Colon and Rectum: Japanese Classification of Colorectal Carcinoma. First English Edition, Yasutomi, M. (Editor-in-chief), Kanehara & Co., Ltd., Tokyo, 1997

DEFINITIONS OF ABBREVIATIONS AND SYMBOLS

Surg	surgery or surgical
GI	gastrointestinal
OC	oncology
GE	gastroenterology or gastroenterological
IM	internal medicine
Gen	general
CRC	colorectal cancer
X	not recorded or uncertain findings
NOS	not otherwise specified
OTH	others
DI	depth of invasion
mm	millimeter
<	less than
>	greater than
<=	less than or equal to
>=	greater than or equal to

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.

I	ileum	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	E	external skin

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

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

Table 1-1
Patients registered
Number of registered patients, by institute

Institute	Department	Males	Females	Total
Aichi Cancer Center	GI Surg	83	54	137
Aichi Prefectural Hospital	Surg	44	22	66
Aomori City Hospital	Surg	59	30	89
Asahikawa Kosei Hospital	GI	24	5	29
Chiba Cancer Center	GI Surg	45	34	79
Coloproctology Center, Social Insurance Central Hospital	Surg	108	51	159
Coloproctology Center, Takano Hospital		97	53	150
Dokkyo University School of Medicine	Surg I	29	8	37
Dokkyo University School of Medicine	Surg II	12	6	18
Faculty of Medicine, Mie University	Surg I	9	3	12
Faculty of Medicine, Mie University	Surg II	27	22	49
Faculty of Medicine, University of Tokyo	Surg OC	69	28	97
Fujita Health University School of Medicine	Surg	43	37	80
Fukui Medical School	Surg I	11	9	20
Fukui Prefectural Hospital	Surg	72	48	120
Fukuoka University, Chikushi Hospital	Surg	45	33	78
Fukuoka University, Chikushi Hospital	GI	9	4	13
Fukushima Medical University	Surg I	9	4	13
Fukushima Medical University	Surg II	12	8	20
Gifu University School of Medicine	Surg I	13	8	21
Gifu University School of Medicine	Surg II	11	21	32
Gihoku General Hospital	Surg	16	11	27
Gunma Cancer Center	Surg	39	23	62
Gunma University School of Medicine	Surg I	55	34	89
Hamamatsu Medical Center	Surg	30	33	63
Hamamatsu University School of Medicine	Surg II	30	16	46
Hirosaki University, School of Medicine	Surg II	38	28	66
Hirosaki University, School of Medicine	IM I	10	6	16
Hiroshima University School of Medicine	Surg II	25	11	36
Hokuriku Central Hospital of the Mutual Aid Association of Public School Teachers	Surg	26	13	39
Hyogo Medical Center for Adults	GI	8	7	15
Hyogo Prefectural Kakogawa Hospital		13	14	27

Table 1-2
Number of registered patients, by institute

Institute	Department	Males	Females	Total
Ibaraki Prefectural Central Hospital	Surg	34	23	57
International Medical Center of Japan	Surg	58	41	99
Iwakuni National Hospital	Surg	15	9	24
Iwate Medical University, School of Medicine	Surg I	36	23	59
Iwate Medical University, School of Medicine	IM	3	1	4
Izushi Municipal Hospital	Surg	1	1	2
Jichi Medical School, School of Medicine	GI Gen Surg	53	30	83
Kagawa Medical University	Surg I	19	10	29
Kanagawa Cancer Center	Surg IV	84	59	143
Kanazawa Medical University	GI Gen Surg	19	21	40
Kanto Rosai Hospital	Surg	23	19	42
Karasawa Hospital		21	11	32
Kariya General Hospital	Surg	48	43	91
Kasukabe City Hospital	Surg	18	8	26
Kawasaki City Ida Hospital	Surg	42	26	68
Kawasaki Medical School	GI Surg	40	31	71
Kinki University School of Medicine	Surg I	23	20	43
Kobe National Hospital	Surg	19	20	39
Kumamoto Municipal Hospital	Surg	57	39	96
Kurume University, School of Medicine	Surg I	44	27	71
Kurume University, Medical Center	Surg	32	29	61
Kyoto University, Graduate School of Medicine, Faculty of Medicine	Surg I	33	24	57
Matsushita Memorial Hospital	Surg	36	16	52
Medical School, Nagoya City University	Surg I	43	27	70
Mito Kyodo General Hospital	Surg	24	7	31
Mitsui Memorial Hospital	Surg	52	33	85
Miyagi Seijinbyo Center	Surg	43	32	75
Nagasaki University, School of Medicine	Surg I	50	34	84
Nagoya University, School of Medicine	Surg II	25	10	35
National Cancer Center Hospital	Surg	197	108	305
National Cancer Center Hospital East	Surg	20	20	40
National Defense Medical College	Surg I	52	38	90

Table 1-3
Number of registered patients, by institute

Institute	Department	Males	Females	Total
National Kyushu Cancer Center	GE Surg	33	33	66
National Kyushu Medical Center Hospital	Surg	64	60	124
National Sapporo Hospital Hokkaido Cancer Center	Surg	21	22	43
National Tochigi Hospital	Surg	13	7	20
Nihon University, School of Medicine	Surg III	68	44	112
Niigata Rinko Hospital		20	21	41
Niigata University, School of Medicine	Surg I	26	21	47
Nippon Medical School	Surg I	72	44	116
NTT WEST Osaka Hospital	Surg	45	32	77
Oita Medical University	Surg I	17	18	35
Okayama First Red Cross Hospital	Surg	34	32	66
Okayama University, Medical School	Surg II	10	5	15
Oomoto Hospital	Surg	31	28	59
Osaka Medical Center for Adults	IM III	37	7	44
Osaka Medical College	GI Gen Surg	41	23	64
Osaka Prefectural Hospital	GI Gen Surg	65	40	105
Osaka University Faculty of Medicine	Surg II	47	25	72
Red Cross Nagoya First Hospital	Surg	48	33	81
Red Cross Sendai Hospital	Surg	53	34	87
Research Institute for Radiation Biology and Medicine, Hiroshima University	Surg OC	11	15	26
Saga Prefectural Hospital, Koseikan	Surg	55	44	99
Saitama Medical Center	Surg	35	21	56
Saitama Medical School	Surg II	40	22	62
Sapporo Medical College	Surg I	27	16	43
Sapporo Social Insurance General Hospital	Surg	21	23	44
Sapporo-Kosei General Hospital	Surg	87	50	137
Sasebo Municipal General Hospital	Surg	37	30	67
School of Medicine, Kanazawa University	Surg I	7	8	15
School of Medicine, Kanazawa University	Surg II	17	14	31
School of Medicine, Keio University	Surg	87	48	135
School of Medicine, Keio University, Ise Keio Hospital	Surg	4	10	14

Table 1-4
Number of registered patients, by institute

Institute	Department	Males	Females	Total
School of Medicine, Kitasato University, East Hospital	GI Surg	81	36	117
School of Medicine, Tokai University	Surg	52	20	72
Sendai National Hospital	Surg	43	34	77
Shiga University of Medical Science	Surg I	7	4	11
Shimane Medical University	Surg II	19	23	42
Showa University School of Medicine	Surg II	25	27	52
Showa University, Toyosu Hospital	Surg	23	12	35
Social Insurance Ritsurin Hospital	Surg	12	6	18
St.Marianna University School of Medicine	Surg I	16	13	29
St.Marianna University School of Medicine	Surg	23	11	34
Tachikawa Hospital	Surg	26	19	45
Teikyo University Hospital at Mizonokuchi	Surg	13	13	26
Teikyo University School of Medicine	Surg I	27	15	42
Terada Hospital	Surg	14	11	25
The Jikei University School of Medicine	Surg	53	31	84
Tochigi Cancer Center		42	40	82
Toho University School of Medicine	Surg I	22	16	38
Tohoku University, School of Medicine	Surg I	38	18	56
Tokyo Kyosai Hospital		175	78	253
Tokyo Medical and Dental University, School of Medicine	Surg I	20	13	33
Tokyo Medical and Dental University, School of Medicine	Surg II	42	21	63
Tokyo Metropolitan Komagome Hospital	Surg	95	60	155
Tottori Prefectural Central Hospital	Surg	35	19	54
Tottori University, Faculty of Medicine	Surg I	24	22	46
Toyama Medical and Pharmaceutical University, Faculty of Medicine	Surg II	31	13	44
Toyama Prefectural Central Hospital	Surg	64	42	106
Uwajima City Hospital	Surg	48	20	68
Wakayama Medical College	Surg II	36	15	51
Yaizu Municipal General Hospital	Surg	42	22	64
Yamagata Prefectural Central Hospital	Surg	68	51	119
Yokohama Hospital, GI Center		13	13	26
Total		4,787	3,092	7,879

Table 2-1

Histological type, site and sex

Hisotology	Site	Males	Females	Total
Adenocarcinoma	Colon	2,713	1,912	4,625
	Rectum	1,912	1,075	2,987
	Unknown	13	2	15
	Total	4,638	2,989	7,627
Other malignancies	Colon	20	15	35
	Rectum	38	31	69
	Unknown	1	0	1
	Total	59	46	105
Unknown	Colon	48	30	78
	Rectum	34	23	57
	Unknown	8	4	12
	Total	90	57	147
Grand total		4,787	3,092	7,879

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

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

Twenty-eight patients with a malignancy of unknown site were exculded from subsequent analysis.

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

Histology	Site	Surgery		No	Total
		Yes			
Adenocarcinoma	Colon	4,614	(595)	11	4,625
	Rectum	2,968	(232)	19	2,987
	Total	7,582	(827)	30	7,612
Other malignancies	Colon	35	(3)	0	35
	Rectum	67	(14)	2	69
	Total	102	(17)	2	104
Unknown	Colon	65	(6)	13	78
	Rectum	50	(0)	7	57
	Total	115	(6)	20	135
Grandtotal		7,799	(850)	52	7,851

The figures in parentheses represent the number of patients treated by endoscopic excision, and those are included in the number in the left column. A total of 135 patients with a malignancy of unknown histology was excuded from subsequent analysis.

Table 3
Modality of principal treatment*
by histology and site

Modality	Adenocarcinoma			Other malignancies		
	Colon	Rectum	Total	Colon	Rectum	Total
Surgery	4,019	2,736	6,755	32	53	85
Endoscopic excision	595	232	827	3	14	17
Radiation (RT)	0	6	6	0	1	1
Chemotherapy (CT)	4	5	9	0	0	0
RT and CT	0	2	2	0	0	0
OTH	1	3	4	0	1	1
No treatment	6	3	9	0	0	0
Total	4,625	2,987	7,612	35	69	104

* Modalities regarded as the most effective and beneficial treatment for cancer. A total of 162 patients who had surgery after endoscopic treatment were classified in the "Endoscopic excision" group in this report.

Adenocarcinoma

A total of 7,612 patients with adenocarcinoma was classified into five groups.

- I) All----- 7,612 cases
- II) Surgery----- 6,755 cases
- III) Surgical resection----- 6,698 cases
- IV) Endoscopic excision----- 827 cases
- V) Surgery after endoscopic excision----- 158 cases

A total of 158 patients who had surgery after endoscopic treatment were classified into "Endoscopic excision group" in this report, although they should be classified into "Surgery" group*. Their information about surgery was described independently in detail (pp.77-83).

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

Table 4-1Age incidence, males

Age

Site	<20	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	Total
I	0	0	0	0	0	1	0	0	0	1
V	0	0	1	0	3	2	2	0	0	8
C	0	0	5	14	42	68	62	21	2	214
A	0	0	7	28	85	201	161	50	1	533
T	0	2	3	29	84	134	125	38	0	415
D	1	0	2	30	62	75	68	19	0	257
S	0	6	13	82	264	519	324	73	4	1,285
Rs	0	2	5	47	123	204	123	36	0	540
Ra	0	1	10	66	167	212	139	34	2	631
Rb	0	1	10	82	173	248	155	45	0	714
P	0	0	0	3	5	11	6	2	0	27
Colon	1	8	31	183	540	1,000	742	201	7	2,713
Rectum	0	4	25	198	468	675	423	117	2	1,912
Total	1	12	56	381	1,008	1,675	1,165	318	9	4,625

Table 4-2Age incidence, females

Age

Site	<20	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	Total
I	0	0	0	0	1	0	0	0	0	1
V	0	0	1	0	1	3	6	2	0	13
C	0	0	2	19	36	82	64	34	1	238
A	0	1	3	27	80	133	152	53	1	450
T	0	0	6	24	53	83	81	32	4	283
D	0	2	2	14	31	29	35	13	1	127
S	2	4	14	80	192	252	198	55	3	800
Rs	0	1	4	35	85	97	75	36	2	335
Ra	0	3	12	26	87	93	59	27	0	307
Rb	0	1	2	57	96	138	96	29	1	420
P	0	0	0	0	3	2	8	0	0	13
Colon	2	7	28	164	394	582	536	189	10	1,912
Rectum	0	5	18	118	271	330	238	92	3	1,075
Total	2	12	46	282	665	912	774	281	13	2,987

Table 5-1
Family history of CRC, by site

Site	Family history of CRC			Total
	No	Yes	X	
I	2	0	0	2
V	18	2	1	21
C	372	19	61	452
A	800	71	112	983
T	559	46	93	698
D	307	34	43	384
S	1,682	160	243	2,085
Rs	724	64	87	875
Ra	792	67	79	938
Rb	988	54	92	1,134
P	36	2	2	40
Colon	3,740	332	553	4,625
Rectum	2,540	187	260	2,987
Total	6,280	519	813	7,612

Table 5-2
Family history of CRC, by age

Age	Family history of CRC			Total
	No	Yes	X	
<20	2	1	0	3
20-29	13	5	6	24
30-39	80	13	9	102
40-49	547	63	53	663
50-59	1,364	130	179	1,673
60-69	2,186	162	239	2,587
70-79	1,594	108	237	1,939
80-89	479	37	83	599
90-99	15	0	7	22
Total	6,280	519	813	7,612

Table 5-3Family history of CRC, by number of family members with CRC

Site	Number of family members with CRC					Total
	1	2	3	>=4	X	
I	0	0	0	0	0	0
V	2	0	0	0	0	2
C	18	1	0	0	0	19
A	63	4	0	0	4	71
T	40	3	0	0	3	46
D	31	2	0	1	0	34
S	146	9	1	1	3	160
Rs	60	1	0	0	3	64
Ra	61	5	0	0	1	67
Rb	48	5	1	0	0	54
P	1	1	0	0	0	2
Colon	300	19	1	2	10	332
Rectum	170	12	1	0	4	187
Total	470	31	2	2	14	519

Table 5-4Family history of CRC, by family member with CRC

Site	Family member with CRC						Total
	F	M	S	C	G	UA	
I	0	0	0	0	0	0	0
V	0	0	1	1	0	0	2
C	5	4	9	0	0	1	19
A	13	16	33	4	3	2	71
T	14	9	21	0	1	1	46
D	5	9	17	0	1	2	34
S	42	37	65	6	2	8	160
Rs	18	15	28	1	1	1	64
Ra	18	18	23	1	5	2	67
Rb	12	14	25	1	2	1	55
P	1	0	1	0	0	0	2
Colon	79	75	146	11	7	14	332
Rectum	49	47	77	3	8	4	188
Total	128	122	223	14	15	18	520

F father
 M mother
 S sibling
 C child
 G grandparent
 UA uncle and/or aunt

Table 6-1Family history of cancers other than CRC, by site

Site	Family history of other cancers			Total
	No	Yes	X	
I	2	0	0	2
V	16	3	2	21
C	269	102	81	452
A	617	223	143	983
T	429	142	127	698
D	230	88	66	384
S	1,315	412	358	2,085
Rs	564	195	116	875
Ra	596	214	128	938
Rb	756	243	135	1,134
P	28	9	3	40
Colon	2,878	970	777	4,625
Rectum	1,944	661	382	2,987
Total	4,822	1,631	1,159	7,612

Table 6-2Family history of cancers other than CRC, by age

Age	Family member with other cancers			Total
	No	Yes	X	
<20	3	0	0	3
20-29	12	6	6	24
30-39	69	19	14	102
40-49	442	140	81	663
50-59	1,039	371	263	1,673
60-69	1,660	565	362	2,587
70-79	1,204	412	323	1,939
80-89	380	117	102	599
90-99	13	1	8	22
Total	4,822	1,631	1,159	7,612

Table 6-3

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

Site	Number of family members with other cancers					Total
	1	2	3	>=4	X	
I	0	0	0	0	0	0
V	3	0	0	0	0	3
C	87	8	4	0	3	102
A	192	16	6	1	9	223
T	116	10	5	2	11	142
D	74	8	2	1	4	88
S	344	32	17	3	19	412
Rs	164	13	5	3	13	195
Ra	184	10	9	1	11	214
Rb	203	18	8	1	14	243
P	9	0	0	0	0	9
Colon	816	74	34	7	46	970
Rectum	560	41	22	5	38	661
Total	1,376	115	56	12	84	1,631

Table 6-4

Family history of cancers other than CRC, by family member with cancers

Site	Family member with other cancers						Total
	F	M	S	C	G	UA	
I	0	0	0	0	0	0	0
V	0	1	1	1	0	0	3
C	32	21	40	5	1	3	102
A	68	54	79	2	8	12	223
T	46	27	52	5	7	5	142
D	34	14	30	2	5	3	88
S	125	92	154	12	17	12	412
Rs	72	40	61	5	10	9	197
Ra	66	59	73	4	3	10	215
Rb	77	44	95	5	8	15	244
P	4	0	2	1	0	2	9
Colon	305	209	356	27	38	35	970
Rectum	219	143	231	15	21	36	665
Total	521	351	585	42	59	70	1,635

F father
 M mother
 S sibling
 C child
 G grandparent
 UA uncle and/or aunt

Table 7-1
Past history of colorectal disease, by site

Past history	Site											Total
	I	V	C	A	T	D	S	Rs	Ra	Rb	P	
None	2	17	358	775	555	311	1,710	736	745	930	25	6,164
Adenoma	0	2	11	53	39	22	74	19	26	27	3	276
Adenomatosis	0	0	1	5	1	2	5	2	1	8	0	25
Ulcertive colitis	0	1	0	1	1	1	1	0	2	1	0	8
Radiation colitis	0	0	2	0	0	0	0	0	0	1	0	3
Anal fistula	0	0	3	8	2	5	21	8	10	14	6	77
OTH	0	0	40	71	52	20	156	56	88	86	3	572
X	0	1	37	70	48	23	118	54	66	67	3	487
Total	2	21	452	983	698	384	2,085	875	938	1,134	40	7,612

Table 7-2
Past history of colorectal disease, by age

Past history	Age									Total
	<20	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	
None	3	22	83	559	1,344	2,058	1,563	512	20	6,164
Adenoma	0	0	0	16	53	108	85	14	0	276
Adenomatosis	0	0	3	5	5	6	5	1	0	25
Ulcertive colitis	0	1	1	1	1	2	2	0	0	8
Radiation colitis	0	0	0	0	0	2	1	0	0	3
Anal fistula	0	0	0	5	17	37	13	5	0	77
OTH	0	0	4	39	134	215	139	40	1	572
X	0	1	11	38	119	159	131	27	1	487
Total	3	24	102	663	1,673	2,587	1,939	599	22	7,612

Table 8-1Measurement of serum carcinoembryonic antigen (CEA), preoperative

Site	Serum CEA			Total
	Examined	Not examined	X	
I	1	1	0	2
V	16	4	1	21
C	368	65	19	452
A	824	116	43	983
T	573	98	27	698
D	325	48	11	384
S	1,697	319	69	2,085
Rs	732	109	34	875
Ra	811	87	40	938
Rb	977	105	52	1,134
P	38	1	1	40
Colon	3,804	651	170	4,625
Rectum	2,558	302	127	2,987
Total	6,362	953	297	7,612

Table 8-2Serum CEA value, preoperative

Site	Serum CEA value					Total
	Normal	<2	<4	<8	>=8	
I	1	0	0	0	0	1
V	9	3	1	2	1	16
C	216	59	30	20	43	368
A	509	122	65	39	89	824
T	361	84	53	27	48	573
D	216	44	22	18	25	325
S	1,085	234	130	77	171	1,697
Rs	426	110	76	37	83	732
Ra	502	119	75	39	76	811
Rb	639	148	83	41	66	977
P	24	7	4	2	1	38
Colon	2,397	546	301	183	377	3,804
Rectum	1,591	384	238	119	226	2,558
Total	3,988	930	539	302	603	6,362

Table 9-1Multiple primary cancers, by sex

Multiple primary cancers	Males	Females	Total
No	4,026	2,633	6,659
Synchronous	234	95	329
Metachronous	236	173	409
X	129	86	215
Total	4,625	2,987	7,612

Table 9-2
Synchronous multiple primary cancers

Organ	Synchronous cancer		Total
	Males	Females	
Esophagus	8	1	9
Stomach	111	3	114
Small intestine	2	1	3
Colon	15	6	21
Rectum	3	2	5
Large intestine, NOS	1	1	2
Liver	22	10	32
Biliary tree	6	1	7
Pancreas	3	1	4
Lung	5	3	8
Breast	0	4	4
Uterine cervix	0	5	6
Uterine corpus	0	1	1
Uterus, NOS	0	7	7
Ovary	0	9	10
Kidney	12	2	14
Bladder	14	0	14
Prostate	9	0	9
Hematopoietic system	2	0	2
Thyroid	0	3	3
Oral cavity	2	1	3
Pharynx and larynx	5	0	5
Skin	1	1	2
OTH	6	1	7
Total	227	63	292

Table 9-3

Metachronous multiple primary cancers

Organ	Metachronous cancer		Total
	Males	Females	
Esophagus	7	3	10
Stomach	112	34	146
Small intestine	1	0	1
Colon	4	2	6
Rectum	2	2	4
Liver	20	5	25
Biliary tree	4	3	7
Pancreas	2	2	4
Lung	20	5	25
Breast	2	47	49
Uterine cervix	0	13	13
Uterine corpus	0	3	3
Uterus, NOS	0	27	28
Ovary	0	6	6
Kidney	6	0	6
Bladder	17	5	22
Prostate	14	0	14
Central nervous system	2	0	2
Thyroid	6	9	15
Oral cavity	2	0	2
Pharynx and larynx	8	0	8
Skin	0	1	1
OTH	8	3	11
Total	237	170	408

Table 10-1Metachronous multiple CRC, by sex

Sex	Metachronous CRC				Total
	No	Early cancer	Advanced cancer	X	
Males	4,315	34	82	194	4,625
Females	2,798	17	53	119	2,987
Total	7,113	51	135	313	7,612

Table 10-2Metachronous multiple CRC, by age

Age	Metachronous CRC		Total
	Early cancer	Advanced cancer	
30-39	0	1	1
40-49	2	7	9
50-59	9	26	35
60-69	20	40	60
70-79	16	50	66
80-89	4	11	15
Total	51	135	186

Table 10-3Metachronous multiple CRC, by site

Site	Metachronous CRC		Total
	Early cancer	Advanced cancer	
V	0	1	1
C	5	18	23
A	6	29	35
T	13	26	39
D	3	14	17
S	14	20	34
Rs	0	8	8
Ra	3	7	10
Rb	6	12	18
P	1	0	1
Colon	41	108	149
Rectum	10	27	37
Total	51	135	186

Table 10-4
Metachronous multiple CRC, by number of cancers

Number of cancers	Metachronous CRC		Total
	Early cancer	Advanced cancer	
1	39	126	165
2	8	7	15
3	3	2	5
4	1	0	1
Total	51	135	186

Table 10-5
Metachronous multiple CRC, by site of metachronous cancer

Site	Metachronous CRC		Total
	Early cancer	Advanced cancer	
Colon	29	79	108
Rectum	13	48	61
X	9	8	17
Total	51	135	186

Table 11-1Number of synchronous multiple CRC, by site

Site	Number of cancers								Total
	1	2	3	4	5	6	7	>=8	
I	2	0	0	0	0	0	0	0	2
V	20	0	0	0	0	0	0	0	20
C	400	19	6	3	0	0	0	0	428
A	806	67	12	4	2	1	0	0	892
T	564	51	9	2	2	0	0	0	628
D	304	21	7	0	1	0	0	0	333
S	1,597	98	15	1	3	1	0	1	1,716
Rs	736	33	6	1	1	0	0	1	778
Ra	802	36	5	3	0	0	0	0	846
Rb	1,018	46	4	2	1	1	0	0	1,072
P	40	0	0	0	0	0	0	0	40
Colon	3,693	256	49	10	8	2	0	0	4,019
Rectum	2,596	115	15	6	2	1	0	0	2,736
Total	6,289	371	64	16	10	3	0	2	6,755

Table 11-2Number of synchronous multiple CRC, by age

Age	Number of cancers								Total
	1	2	3	4	5	6	7	>=8	
<20	2	0	0	0	0	0	0	0	2
20-29	16	2	2	0	0	0	0	1	21
30-39	94	1	0	0	0	0	0	0	95
40-49	544	16	6	0	1	0	0	0	567
50-59	1,364	59	9	2	3	1	0	0	1,438
60-69	2,104	146	23	7	2	1	0	0	2,283
70-79	1,630	108	20	6	4	1	0	1	1,770
80-89	516	39	4	1	0	0	0	0	560
90-99	19	0	0	0	0	0	0	0	19
Total	6,289	371	64	16	10	3	0	2	6,755

Table 11-3Number of synchronous multiple CRC, males, by age

Age	Number of cancers								Total
	1	2	3	4	5	6	7	>=8	
<20	1	0	0	0	0	0	0	0	1
20-29	6	1	2	0	0	0	0	1	10
30-39	53	1	0	0	0	0	0	0	54
40-49	308	8	1	0	1	0	0	0	318
50-59	789	37	6	2	2	0	0	0	836
60-69	1,314	114	16	5	1	1	0	0	1,451
70-79	956	65	12	4	3	0	0	1	1,041
80-89	266	20	2	1	0	0	0	0	289
90-99	8	0	0	0	0	0	0	0	8
Total	3,701	246	39	12	7	1	0	2	4,008

Table 11-4Number of synchronous multiple CRC, females, by age

Age	Number of cancers								Total
	1	2	3	4	5	6	7	>=8	
<20	1	0	0	0	0	0	0	0	1
20-29	10	1	0	0	0	0	0	0	11
30-39	41	0	0	0	0	0	0	0	41
40-49	236	8	5	0	0	0	0	0	249
50-59	575	22	3	0	1	1	0	0	602
60-69	790	32	7	2	1	0	0	0	832
70-79	674	43	8	2	1	1	0	0	729
80-89	250	19	2	0	0	0	0	0	271
90-99	11	0	0	0	0	0	0	0	11
Total	2,588	125	25	4	3	2	0	0	2,747

Table 12-1Macroscopic type of tumor, by site

Site	Macroscopic type						X	Total
	Type 0	Type 1	Type 2	Type 3	Type 4	Type 5		
I	1	0	1	0	0	0	0	2
V	0	5	6	1	1	5	2	20
C	62	61	228	64	0	7	6	428
A	131	69	552	108	2	15	15	892
T	95	49	395	55	2	13	19	628
D	51	31	203	36	2	4	6	333
S	248	154	1,110	145	8	19	32	1,716
Rs	69	72	534	72	5	10	16	778
Ra	124	73	542	74	9	8	16	846
Rb	202	97	660	78	14	11	10	1,072
P	5	2	13	6	1	12	1	40
Colon	588	369	2,495	409	15	63	80	4,019
Rectum	400	244	1,749	230	29	41	43	2,736
Total	988	613	4,244	639	44	104	123	6,755

- 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 12-2
Macroscopic type of Type 0 cancer

Site	Macroscopic type									Total
	Ip	Isp	Is	IIa	IIa+IIc	IIb	IIc	IIc+IIa	OTH	
I	0	1	0	0	0	0	0	0	0	1
V	0	0	0	0	0	0	0	0	0	0
C	8	11	14	20	5	0	0	1	3	62
A	18	21	22	35	20	1	6	1	7	131
T	4	13	9	25	15	3	16	2	8	95
D	7	7	8	13	9	0	4	1	2	51
S	65	61	50	25	29	0	6	1	11	248
Rs	7	27	10	9	11	0	0	0	5	69
Ra	4	26	37	28	17	0	4	0	8	124
Rb	12	44	63	40	25	0	3	3	12	202
P	0	2	1	0	1	0	1	0	0	5
Colon	102	114	103	118	78	4	32	6	31	588
Rectum	23	99	111	77	54	0	8	3	25	400
Total	125	213	214	195	132	4	40	9	56	988

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

- Type 0 I Protruded type
 - Ip Pedunculated type
 - Isp Semipedunculated type
 - Is Sessile type
- Type 0 II Superficial type
 - IIa Superficial elevated type
 - IIb Superficial flat type
 - IIc Superficial depressed type
- Type 0 III Excavated type

Table 13Tumor location, by circumferential division of the bowel wall

Site	Circumferential division of the bowel wall						X	Total
	Dorsal or post.	Ventral or ant.	Medial or right	Lateral or left	Circular			
I	0	0	0	0	1		1	2
V	1	0	0	0	14		5	20
C	75	94	25	22	149		63	428
A	190	153	35	49	344		121	892
T	127	102	29	14	270		86	628
D	63	45	13	15	147		50	333
S	358	344	69	78	575		292	1,716
Rs	157	165	35	41	252		128	778
Ra	187	217	45	71	233		93	846
Rb	241	291	143	109	180		108	1,072
P	10	7	5	5	6		7	40
Colon	814	738	171	178	1,500		618	4,019
Rectum	595	680	228	226	671		336	2,736
Total	1,409	1,418	399	404	2,171		954	6,755

Dorsal mesenteric side

Ventral side opposite to the mesenterium

post. posterior side

ant. anterior side

Table 14-1Tumor size, by circumferential division of the bowel wall

Circumferential occupancy of the bowel wall

Site	<1/3	<1/2	<2/3	Semi- circular	Circular	X	Total
I	1	0	0	0	1	0	2
V	1	0	0	1	14	4	20
C	97	50	46	60	136	39	428
A	190	120	100	122	312	48	892
T	131	69	54	83	251	40	628
D	81	30	29	41	137	15	333
S	390	244	188	270	510	114	1,716
Rs	138	121	116	135	229	39	778
Ra	180	130	132	131	213	60	846
Rb	345	176	164	171	152	64	1,072
P	14	5	4	3	8	6	40
Colon	891	513	417	577	1,361	260	4,019
Rectum	677	432	416	440	602	169	2,736
Total	1,568	945	833	1,017	1,963	429	6,755

Table 14-2Tumor size, the greatest dimension of the tumor, by site

Site	Tumor size (mm)						X	Total
	<=20	21-40	41-60	61-80	81-100	>100		
I	1	1	0	0	0	0	0	2
V	0	6	1	5	0	0	8	20
C	31	121	115	68	29	17	47	428
A	94	255	226	131	52	40	94	892
T	75	177	156	74	35	21	90	628
D	51	108	96	31	5	8	34	333
S	254	543	451	185	58	35	190	1,716
Rs	75	230	244	86	30	24	89	778
Ra	93	227	244	114	39	24	105	846
Rb	146	322	261	143	43	23	134	1,072
P	7	13	5	2	2	1	10	40
Colon	506	1,211	1,045	494	179	121	463	4,019
Rectum	321	792	754	345	114	72	338	2,736
Total	827	2,003	1,799	839	293	193	801	6,755

Table 14-3Tumor size, the greatest dimension of the tumor, by DI

DI	Tumor size (mm)						X	Total
	<=20	21-40	41-60	61-80	81-100	>100		
m	145	182	51	22	3	4	73	480
sm	367	186	35	8	3	10	75	684
mp	164	435	143	19	12	10	102	885
ss/a1	90	741	863	387	112	65	264	2,522
se/a2	39	398	580	303	97	61	162	1,640
si/ai	3	32	102	89	62	40	44	372
X	19	29	25	11	4	3	81	172
Total	827	2,003	1,799	839	293	193	801	6,755

Table 15-1
Metastasis, peritoneum

Site	Peritoneal metastasis					Total
	P0	P1	P2	P3	PX	
I	2	0	0	0	0	2
V	15	1	0	4	0	20
C	362	16	12	23	15	428
A	807	24	13	30	18	892
T	574	13	10	18	13	628
D	310	8	5	6	4	333
S	1,593	32	27	30	34	1,716
Rs	729	21	7	6	15	778
Ra	776	21	7	5	37	846
Rb	984	10	2	2	74	1,072
P	39	0	0	1	0	40
Colon	3,663	94	67	111	84	4,019
Rectum	2,528	52	16	14	126	2,736
Total	6,191	146	83	125	210	6,755

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 15-2
Metastasis, liver

Site	Liver metastasis					Total
	H0	H1	H2	H3	HX	
I	2	0	0	0	0	2
V	19	0	0	1	0	20
C	367	16	9	33	3	428
A	782	31	18	52	9	892
T	547	27	14	36	4	628
D	295	11	7	18	2	333
S	1,494	65	33	112	12	1,716
Rs	668	31	13	61	5	778
Ra	737	29	21	44	15	846
Rb	973	26	14	24	35	1,072
P	40	0	0	0	0	40
Colon	3,506	150	81	252	30	4,019
Rectum	2,418	86	48	129	55	2,736
Total	5,924	236	129	381	85	6,755

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 15-3

Metastasis, lung

Pulmonary metastasis

Site	LM0	LM1	LM2	LM3	LMX	Total
I	2	0	0	0	0	2
V	18	0	0	0	2	20
C	391	2	1	3	31	428
A	829	7	1	11	44	892
T	594	2	0	2	30	628
D	309	3	1	1	19	333
S	1,606	11	4	13	82	1,716
Rs	730	6	1	5	36	778
Ra	779	8	3	5	51	846
Rb	997	7	1	7	60	1,072
P	35	0	0	0	5	40
Colon	3,749	25	7	30	208	4,019
Rectum	2,541	21	5	17	152	2,736
Total	6,290	46	12	47	360	6,755

LM0 No pulmonary metastasis

LM1 Metastasis only to one lobe

LM2 Metastases to multiple lobes but not meeting "LM3"

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

LMX No information on pulmonary metastasis

Table 15-4
Metastasis, distant organs

Site	Distant metastasis								Total
	M(-)	Bone	Brain	Adrenal	Skin	Virchow	OTH	X	
I	2	0	0	0	0	0	0	0	2
V	20	0	0	0	0	0	0	0	20
C	399	1	0	0	0	1	3	24	428
A	846	0	3	0	0	1	1	41	892
T	593	0	0	0	0	1	2	32	628
D	317	2	0	0	0	1	1	12	333
S	1,638	4	0	1	0	0	3	70	1,716
Rs	746	0	0	0	0	1	6	25	778
Ra	787	1	1	1	0	0	5	51	846
Rb	1,012	1	2	0	0	0	1	56	1,072
P	40	0	0	0	0	0	0	0	40
Colon	3,815	7	3	1	0	4	10	179	4,019
Rectum	2,585	2	3	1	0	1	12	132	2,736
Total	6,400	9	6	2	0	5	22	311	6,755

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

Table 16
Histological classification, by site

Site	Histological classification						Total
	w/d	m/d	p/d	muc	sig	NOS	
I	2	0	0	0	0	0	2
V	9	2	3	5	1	0	20
C	205	160	30	23	3	7	428
A	415	364	63	38	2	10	892
T	289	260	34	32	2	11	628
D	182	126	6	15	0	4	333
S	931	707	36	32	1	9	1,716
Rs	395	341	21	14	0	7	778
Ra	427	358	32	18	5	6	846
Rb	522	455	38	37	5	15	1,072
P	15	9	5	7	1	3	40
Colon	2,033	1,619	172	145	9	41	4,019
Rectum	1,359	1,163	96	76	11	31	2,736
Total	3,392	2,782	268	221	20	72	6,755

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 17-1

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

Site	DI						X	Total
	M	SM	MP	SS/A1	SE/A2	Si/Ai		
I	0	1	0	1	0	0	0	2
V	0	0	1	6	3	6	4	20
C	34	35	32	95	148	79	5	428
A	64	67	76	239	330	103	13	892
T	49	54	51	143	243	77	11	628
D	17	39	24	71	133	42	7	333
S	65	211	155	473	601	191	20	1,716
Rs	22	57	78	246	280	87	8	778
Ra	38	90	104	233	298	74	9	846
Rb	86	144	217	241	270	97	17	1,072
P	2	4	8	5	9	9	3	40
Colon	229	407	339	1,028	1,458	498	60	4,019
Rectum	148	295	407	725	857	267	37	2,736
Total	377	702	746	1,753	2,315	765	97	6,755

Intesitine with serosa, macroscopic

- M Tumor invasion of mucosa
 SM Tumor invasion of submucosa
 MP Tumor invasion of muscularis propria
 SS Tumor invasion of subserosa
 SE Tumor invasion of serosa
 Si Tumor invasion of other organs or structures

Intesitine without serosa

- M Tumor invasion of mucosa
 SM Tumor invasion of submucosa
 MP Tumor invasion of muscularis propria
 A1 Tumor invasion through muscularis propria into non-peritonealized part
 A2 Tumor invasion of non-peritonealized, pericolic or perirectal tissues
 Ai Direct tumor invasion of other organs or structures

Table 17-2

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

Site	DI							Total
	m	sm	mp	ss/a1	se/a2	si/ai	X	
I	0	1	1	0	0	0	0	2
V	0	0	1	10	4	3	2	20
C	41	33	34	151	119	36	14	428
A	76	71	65	397	223	42	18	892
T	57	44	60	252	153	35	27	628
D	26	30	36	128	82	22	9	333
S	82	208	202	736	363	90	35	1,716
Rs	29	59	112	322	194	40	22	778
Ra	66	78	121	289	231	44	17	846
Rb	100	156	244	234	259	54	25	1,072
P	3	4	9	3	12	6	3	40
Colon	282	387	399	1,674	944	228	105	4,019
Rectum	198	297	486	848	696	144	67	2,736
Total	480	684	885	2,522	1,640	372	172	6,755

Intesitine with serosa, histological

m Tumor invasion of mucosa
 sm Tumor invasion of submucosa
 mp Tumor invasion of muscularis propria
 ss Tumor invasion of subserosa
 se Tumor invasion of serosa
 si Tumor invasion of other organs or structures

Intesitine without serosa

m Tumor invasion of mucosa
 sm Tumor invasion of submucosa
 mp Tumor invasion of muscularis propria
 a1 Tumor invasion through muscularis propria into non-peritonealized part
 a2 Tumor invasion of non-peritonealized, pericolic or perirectal tissues
 ai Direct tumor invasion of other organs or structures

Table 18Number of organs or structures with cancer invasion, histological

Site	Number of organs with cancer invasion					Total
	1	2	3	4	X	
I	0	0	0	0	0	0
V	3	0	0	0	0	3
C	28	5	1	1	1	36
A	37	5	0	0	0	42
T	27	3	3	1	1	35
D	16	4	0	1	1	22
S	72	13	1	1	3	90
Rs	30	10	0	0	0	40
Ra	30	10	1	0	3	44
Rb	45	4	4	0	1	54
P	5	1	0	0	0	6
Colon	183	30	5	4	6	228
Rectum	110	25	5	0	4	144
Total	293	55	10	4	10	372

Table 19-1
Lymph node metastasis, macroscopic, by site

Site	Lymph node metastasis						Total
	N0	N1	N2	N3	N4	NX	
I	2	0	0	0	0	0	2
V	8	3	2	6	0	1	20
C	153	123	69	36	25	22	428
A	358	261	166	48	35	24	892
T	261	199	87	28	29	24	628
D	149	117	37	4	10	16	333
S	784	532	244	40	60	56	1,716
Rs	329	274	94	23	31	27	778
Ra	364	312	91	18	30	31	846
Rb	533	266	125	45	22	81	1,072
P	21	6	4	5	1	3	40
Colon	1,715	1,235	605	162	159	143	4,019
Rectum	1,247	858	314	91	84	142	2,736
Total	2,962	2,093	919	253	243	285	6,755

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 19-2Lymph node metastasis, histological, by site

Site	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
I	0	2	0	0	0	0	2
V	11	3	3	2	0	1	20
C	226	92	52	16	18	24	428
A	503	182	118	48	15	26	892
T	351	131	64	22	13	47	628
D	212	79	20	1	4	17	333
S	982	409	192	40	31	62	1,716
Rs	434	197	82	16	24	25	778
Ra	446	233	86	29	20	32	846
Rb	572	205	112	48	16	119	1,072
P	19	6	4	6	1	4	40
Colon	2,285	898	449	129	81	177	4,019
Rectum	1,471	641	284	99	61	180	2,736
Total	3,756	1,539	733	228	142	357	6,755

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 19-3Lymph node metastasis, histological, by DI

DI	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
m	404	4	1	2	0	69	480
sm	574	50	14	2	3	41	684
mp	664	146	46	9	6	14	885
ss/a1	1,362	697	293	71	40	59	2,522
se/a2	547	540	309	109	67	68	1,640
si/ai	146	80	56	31	23	36	372
X	59	22	14	4	3	70	172
Total	3,756	1,539	733	228	142	357	6,755

Table 19-4Lymph node metastasis, histological, colon, by DI

DI	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
m	271	1	1	1	0	8	282
sm	340	29	6	1	2	9	387
mp	316	55	21	1	3	3	399
ss/a1	895	458	200	53	26	42	1,674
se/a2	327	296	179	58	34	50	944
si/ai	94	49	32	13	15	25	228
X	42	10	10	2	1	40	105
Total	2,285	898	449	129	81	177	4,019

Table 19-5Lymph node metastasis, histological, rectum, by DI

DI	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
m	133	3	0	1	0	61	198
sm	234	21	8	1	1	32	297
mp	348	91	25	8	3	11	486
ss/a1	467	239	93	18	14	17	848
se/a2	220	244	130	51	33	18	696
si/ai	52	31	24	18	8	11	144
X	17	12	4	2	2	30	67
Total	1,471	641	284	99	61	180	2,736

Table 20-1
Lymphatic invasion, by site

Site	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
I	0	0	1	0	0	1	2
V	7	3	3	3	0	4	20
C	149	153	78	32	6	10	428
A	311	324	165	62	8	22	892
T	213	219	122	41	5	28	628
D	119	135	56	16	1	6	333
S	570	684	319	103	14	26	1,716
Rs	231	311	175	45	1	15	778
Ra	264	318	164	73	6	21	846
Rb	374	389	201	56	9	43	1,072
P	13	8	11	6	1	1	40
Colon	1,369	1,518	744	257	34	97	4,019
Rectum	882	1,026	551	180	17	80	2,736
Total	2,251	2,544	1,295	437	51	177	6,755

Table 20-2
Lymphatic invasion, colon, by DI

DI	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
m	271	3	1	0	0	7	282
sm	248	99	20	5	1	14	387
mp	160	168	55	7	2	7	399
ss/a1	440	768	335	91	25	15	1,674
se/a2	172	372	271	116	4	9	944
si/ai	51	88	50	32	2	5	228
X	27	20	12	6	0	40	105
Total	1,369	1,518	744	257	34	97	4,019

Table 20-3Lymphatic invasion, rectum, by DI

DI	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
m	176	4	1	0	0	17	198
sm	163	98	20	1	5	10	297
mp	191	218	59	9	5	4	486
ss/a1	214	406	183	33	6	6	848
se/a2	108	247	233	101	0	7	696
si/ai	22	41	42	32	1	6	144
X	8	12	13	4	0	30	67
Total	882	1,026	551	180	17	80	2,736

ly0 No lymphatic invasion

ly1 Minimal lymphatic invasion

ly2 Moderate lymphatic invasion

ly3 Severe lymphatic invasion

ly+ Positive lymphatic invasion

Table 21-1
Venous invasion, by site

Site	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
I	0	1	0	0	0	1	2
V	13	2	1	0	0	4	20
C	216	133	44	15	6	14	428
A	433	302	94	28	9	26	892
T	306	176	83	26	4	33	628
D	170	109	39	7	2	6	333
S	817	572	210	68	15	34	1,716
Rs	319	283	110	43	4	19	778
Ra	365	272	127	48	6	28	846
Rb	477	328	155	53	9	50	1,072
P	15	14	6	4	0	1	40
Colon	1,955	1,295	471	144	36	118	4,019
Rectum	1,176	897	398	148	19	98	2,736
Total	3,131	2,192	869	292	55	216	6,755

Table 21-2
Venous invasion, colon, by DI

DI	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
m	274	0	0	1	0	7	282
sm	287	72	8	2	0	18	387
mp	259	120	11	0	2	7	399
ss/a1	692	650	224	56	28	24	1,674
se/a2	351	348	163	64	4	14	944
si/ai	74	82	48	15	2	7	228
X	18	23	17	6	0	41	105
Total	1,955	1,295	471	144	36	118	4,019

Table 21-3Venous invasion, rectum, by DI

DI	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
m	176	4	0	1	0	17	198
sm	195	77	9	0	4	12	297
mp	265	168	35	6	4	8	486
ss/a1	306	324	153	44	9	12	848
se/a2	189	259	163	72	1	12	696
si/ai	37	52	27	20	1	7	144
X	8	13	11	5	0	30	67
Total	1,176	897	398	148	19	98	2,736

v0 No venous invasion
v1 Minimal venous invasion
v2 Moderate venous invasion
v3 Severe venous invasion
v+ Positive venous invasion

Table 22-1Tumor invasion of surgical margin, macroscopic, by site

Site	Proximal cut end (OW)			Total
	OW(-)	OW(+)	X	
I	2	0	0	2
V	20	0	0	20
C	399	2	27	428
A	851	0	41	892
T	581	1	46	628
D	319	0	14	333
S	1,656	0	60	1,716
Rs	744	0	34	778
Ra	813	1	32	846
Rb	1,027	1	44	1,072
P	38	0	2	40
Colon	3,828	3	188	4,019
Rectum	2,622	2	112	2,736
Total	6,450	5	300	6,755

Table 22-2Tumor invasion of surgical margin, macroscopic, by site

Site	Distal cut end (AW)			Total
	AW(-)	AW(+)	X	
I	2	0	0	2
V	20	0	0	20
C	408	1	19	428
A	869	1	22	892
T	595	1	32	628
D	328	0	5	333
S	1,674	1	41	1,716
Rs	757	1	20	778
Ra	823	1	22	846
Rb	1,031	7	34	1,072
P	38	1	1	40
Colon	3,896	4	119	4,019
Rectum	2,649	10	77	2,736
Total	6,545	14	196	6,755

Table 22-3Tumor invasion of surgical margin, macroscopic, by site

Site	Surgical cut end (EW)			Total
	EW(-)	EW(+)	X	
I	2	0	0	2
V	19	1	0	20
C	390	8	30	428
A	834	16	42	892
T	574	9	45	628
D	317	3	13	333
S	1,602	34	80	1,716
Rs	724	15	39	778
Ra	796	18	32	846
Rb	995	29	48	1,072
P	33	6	1	40
Colon	3,738	71	210	4,019
Rectum	2,548	68	120	2,736
Total	6,286	139	330	6,755

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 22-4Distance between tumor and proximal cut end, by site

Site	Distance between tumor and proximal cut end (mm)				Total
	<=50	51-100	>100	X	
I	0	0	2	0	2
V	3	7	6	4	20
C	83	154	151	40	428
A	131	308	379	74	892
T	132	162	264	70	628
D	68	145	100	20	333
S	369	688	542	117	1,716
Rs	102	214	399	63	778
Ra	89	162	529	66	846
Rb	153	72	718	129	1,072
P	4	0	29	7	40
Colon	786	1,464	1,444	325	4,019
Rectum	348	448	1,675	265	2,736
Total	1,134	1,912	3,119	590	6,755

Table 22-5Distance between tumor and distal cut end, colon, by site

Site	Distance between tumor and distal cut end (mm)				Total
	<=50	51-100	>100	X	
I	0	0	2	0	2
V	2	9	5	4	20
C	70	108	208	42	428
A	141	233	441	77	892
T	139	241	179	69	628
D	64	120	129	20	333
S	569	734	300	113	1,716
Total	985	1,445	1,264	325	4,019

Table 22-6Distance between tumor and distal cut end, rectum, by site

Site	Distance between tumor and distal cut end (mm)							X	Total
	<=10	11-20	21-30	31-40	41-50	51-60	>60		
Rs	27	54	134	132	135	108	121	67	778
Ra	75	184	201	127	65	42	91	61	846
Rb	234	195	163	103	85	62	102	128	1,072
P	11	6	5	5	3	0	1	9	40
Total	347	439	503	367	288	212	315	265	2,736

Table 22-7Distance 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	
<=50	438	197	146	781
51-100	294	678	487	1,459
>100	245	569	628	1,442
Total	977	1,444	1,261	3,682

Table 22-8Distance 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	
<=50	167	27	29	17	9	9	82	340
51-100	149	320	371	261	209	161	184	1,655
>100	22	86	100	84	67	41	47	447
Total	338	433	500	362	285	211	313	2,442

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 22-9

Tumor invasion of surgical margin, histological, by site

Site	Proximal cut end (OW)			Total
	ow (-)	ow (+)	X	
I	2	0	0	2
V	19	0	1	20
C	402	1	25	428
A	868	0	24	892
T	593	1	34	628
D	325	0	8	333
S	1,659	1	56	1,716
Rs	755	1	22	778
Ra	811	1	34	846
Rb	1,026	4	42	1,072
P	39	0	1	40
Colon	3,868	3	148	4,019
Rectum	2,631	6	99	2,736
Total	6,499	9	247	6,755

Table 22-10

Tumor invasion of surgical margin, histological, by site

Site	Distal cut end (aw)			Total
	aw (-)	aw (+)	X	
I	2	0	0	2
V	19	0	1	20
C	402	1	25	428
A	867	1	24	892
T	592	2	34	628
D	324	1	8	333
S	1,658	1	57	1,716
Rs	754	2	22	778
Ra	805	7	34	846
Rb	1,022	9	41	1,072
P	39	0	1	40
Colon	3,864	6	148	4,019
Rectum	2,620	18	99	2,736
Total	6,484	24	247	6,755

Table 22-11Tumor invasion of surgical margin, histological, by site

Site	Surgical cut end (ew)			Total
	ew(-)	ew(+)	X	
I	2	0	0	2
V	18	1	1	20
C	374	12	42	428
A	820	26	46	892
T	564	16	48	628
D	306	8	19	333
S	1,570	44	102	1,716
Rs	709	27	42	778
Ra	763	39	44	846
Rb	964	50	58	1,072
P	32	7	1	40
Colon	3,654	107	245	245
Rectum	2,468	123	160	160
Total	6,122	230	403	6,755

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 22-12

Tumor invasion of surgical margin, histological

Proximal cut end	Distal cut end			Total
	aw(-)	aw(+)	X	
ow(-)	6,477	19	3	6,499
ow(+)	4	5	0	9
X	3	0	244	247
Total	6,484	24	247	6,755

Table 22-13

Tumor invasion of surgical margin, histological

Proximal cut end	Surgical cut end			Total
	ew(-)	ew(+)	X	
ow(-)	6,112	223	164	6,499
ow(+)	4	4	1	9
X	6	3	238	247
Total	6,122	230	403	6,755

Table 22-14

Tumor invasion of surgical margin, histological

Distal cut end	Surgical cut end			Total
	ew(-)	ew(+)	X	
aw(-)	6,101	221	162	6,484
aw(+)	14	7	3	24
X	7	2	238	247
Total	6,122	230	403	6,755

Table 23-1Histological examination of peritoneal metastasis, by site

Site	Histological or cytological examination			X	Total
	Not examined	Positive histology	Positive cytology		
I	1	0	0	1	2
V	15	2	1	2	20
C	299	27	3	99	428
A	628	31	11	222	892
T	433	15	8	172	628
D	246	11	5	71	333
S	1,239	42	20	415	1,716
Rs	552	9	15	202	778
Ra	588	16	8	234	846
Rb	809	2	1	260	1,072
P	32	0	1	7	40
Colon	2,861	128	48	982	4,019
Rectum	1,981	27	25	703	2,736
Total	4,842	155	73	1,685	6,755

Table 23-2Histological examination of peritoneal metastasis

Peritoneal metastasis	Histological or cytological examination			X	Total
	Not examined	Positive histology	Positive cytology		
P0	4,640	18	41	1,492	6,191
P1	69	43	10	24	146
P2	27	38	8	10	83
P3	42	54	14	15	125
PX	64	2	0	144	210
Total	4,842	155	73	1,685	6,755

Table 24Additional and/or adjuvant therapy, by site (multi-answers)

Site	Additional and/or adjuvant therapy									
	None	Radiation			Chemotherapy			OTH	X	Total
		pre	intra	post	pre	intra	post			
I	0	0	0	0	0	0	2	0	0	2
V	8	0	0	0	0	0	9	0	3	20
C	200	0	0	1	3	1	160	0	65	430
A	417	0	2	4	9	2	326	4	129	893
T	307	0	0	5	6	3	227	1	83	632
D	158	0	0	3	4	2	114	0	53	334
S	785	0	0	13	32	9	632	4	248	1,723
Rs	339	0	0	11	9	5	296	1	120	781
Ra	353	7	1	9	8	4	307	2	159	850
Rb	488	21	6	18	16	6	333	0	191	1,079
P	17	1	0	4	2	0	10	0	6	40
Colon	1,875	0	2	26	54	17	1,470	9	581	4,034
Rectum	1,197	29	7	42	35	15	946	3	476	2,750
Total	3,072	29	9	68	89	32	2,416	12	1,057	6,784

pre preoperative therapy
intra intraoperative therapy
post postoperative therapy

Table 25-1

Operative procedures, patients without tumor resection, by site

Site	Explora- tory	Enterostomy				Bypass	OTH	X	Total
		Ileum	Right colon	Transve- rse	Left colon				
I	0	0	0	0	0	0	0	0	0
V	0	0	0	0	0	0	0	0	0
C	0	1	0	0	0	4	0	1	6
A	0	0	0	0	0	8	0	0	8
T	1	0	0	1	0	12	0	0	14
D	0	1	0	0	0	1	0	0	2
S	0	0	0	4	1	0	0	0	5
Rs	0	0	0	3	5	0	0	0	8
Ra	0	0	0	0	6	0	0	0	6
Rb	0	0	0	2	3	0	0	2	7
P	0	0	0	1	0	0	0	0	1
Colon	1	2	0	5	1	25	0	1	35
Rectum	0	0	0	6	14	0	0	2	22
Total	1	2	0	11	15	25	0	3	57

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 25-2

Operative procedures, laparoscopic surgery

Laparoscopic surgery (LS)

Site	No	Yes		OTH	Total
		LS only	LS assisted		
I	2	0	0	0	2
V	19	0	1	0	20
C	397	1	24	0	422
A	858	3	23	0	884
T	583	1	30	0	614
D	316	0	15	0	331
S	1,640	3	68	0	1,711
Rs	759	1	9	1	770
Ra	833	2	5	0	840
Rb	1,060	2	3	0	1,065
P	39	0	0	0	39
Colon	3,815	8	161	0	3,984
Rectum	2,691	5	17	1	2,714
Total	6,506	13	178	1	6,698

III) Adenocarcinoma, Surgical resection

Table 25-3

Operative procedures

Polypectomy	trans-abdominal	8
	trans-anal	39
	trans-sacral	12
	trans-sphinteric	5
Tumorectomy	trans-abdominal	8
	trans-anal	75
	trans-sacral	8
	trans-sphinteric	2
Segmental resection	colon	200
	rectum	12
Appendectomy		4
Ileocecal resection		257
Ascending colectomy		64
Right hemicolectomy		1,090
Transverse colectomy		282
Descending colectomy		119
Left hemicolectomy		224
Sigmoidectomy		1,358
Subtotal colectomy		19
Total colectomy		13
Shincter preserving operation	hight anterior resection	517
	low anterior resection	1,380
	posterior resection	9
	invagination method	2
	pull through procedure	3
	abdominosacral resection	14
Hartmann's operation		173
Amputation of the rectum	abdominoperineal	597
	abdominosacral	16
Total pelvic exenteration		42
Total resection of the colon and rectum		
	with ileostumy	1
	with ileoanal anastomosis	7
OTH		15
X		123
Total		6,698

Table 26-1

Lymph node dissection, paraintestinal, by site

Site	Lymph node dissection, paraintestinal nodes				Total
	D0	D1	D2	X	
I	0	0	2	0	2
V	0	5	13	2	20
C	15	87	299	21	422
A	16	156	679	33	884
T	36	154	404	20	614
D	7	97	211	16	331
S	58	483	1,111	59	1,711
Rs	22	184	517	47	770
Ra	35	196	556	53	840
Rb	148	186	677	54	1,065
P	4	6	21	8	39
Colon	132	982	2,719	151	3,984
Rectum	209	572	1,771	162	2,714
Total	341	1,554	4,490	313	6,698

Table 26-2

Lymph node dissection, mesenteric, by site

Site	Lymph node dissection, mesenteric nodes				Total
	D0	D2	D3	X	
I	0	0	2	0	2
V	0	7	13	0	20
C	55	146	201	20	422
A	66	292	474	52	884
T	86	238	258	32	614
D	46	126	135	24	331
S	192	619	820	80	1,711
Rs	68	236	425	41	770
Ra	67	290	434	49	840
Rb	171	301	520	73	1,065
P	3	9	25	2	39
Colon	445	1,428	1,903	208	3,984
Rectum	309	836	1,404	165	2,714
Total	754	2,264	3,307	373	6,698

III) Adenocarcinoma, Surgical resection

Table 26-3

Lymph node dissection, rectum, lateral, by site

Site	Lymph node dissection, lateral nodes				Total
	D0	D2	D3	X	
Rs	357	81	73	259	770
Ra	341	128	180	191	840
Rb	397	220	279	169	1,065
P	12	12	10	5	39
Total	1,107	441	542	624	2,714

- 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

III) Adenocarcinoma, Surgical resection

Table 27-1

Combined resection, by site

Site	Number of organs resected						Total
	0	1	2	3	4	>=5	
I	2	0	0	0	0	0	2
V	14	4	2	0	0	0	20
C	356	50	12	3	1	0	422
A	771	99	11	2	1	0	884
T	526	66	17	4	1	0	614
D	289	35	5	1	1	0	331
S	1,486	171	40	8	5	1	1,711
Rs	669	69	24	5	2	1	770
Ra	734	73	28	3	1	1	840
Rb	943	76	31	12	3	0	1,065
P	33	3	2	1	0	0	39
Colon	3,444	425	87	18	9	1	3,984
Rectum	2,379	221	85	21	6	2	2,714
Total	5,823	646	172	39	15	3	6,698

III) Adenocarcinoma, Surgical resection

Table 27-2

Combined resection, by site (multi-answers)

Organ	Site											Total
	I	V	C	A	T	D	S	Rs	Ra	Rb	P	
Abdominal wall	0	0	16	10	1	6	1	2	1	0	0	37
Pelvic wall	0	0	1	1	1	0	2	0	1	4	0	10
Uterus	0	0	2	2	1	0	10	6	8	9	0	38
Ovary & tube	0	2	8	4	3	2	28	31	11	13	0	102
Vagina	0	0	0	0	0	0	0	2	5	26	3	36
Seminal vesicle	0	0	0	0	0	0	3	2	5	5	0	15
Prostate	0	0	0	2	0	0	1	1	1	11	0	16
Bladder	0	0	2	1	1	0	53	20	15	20	2	114
Ureter	0	0	0	0	0	2	4	2	1	2	0	11
Stomach	0	0	1	4	12	2	5	5	1	0	0	30
Duodenum	0	0	1	5	3	0	1	0	0	0	0	10
Small intestine	0	1	11	8	15	8	31	8	6	3	0	91
Colon	0	1	5	6	4	2	12	9	6	6	0	51
Rectum	0	0	0	0	0	0	3	0	2	0	0	5
Liver	0	0	2	7	4	3	3	7	4	4	0	34
Omentum	0	1	0	2	2	1	1	0	0	0	0	7
Remote organ	0	0	0	0	0	1	0	0	1	0	0	2
OTH	0	1	21	64	42	19	65	23	39	27	1	302
Total	0	6	70	116	89	46	223	118	107	130	6	911

III) Adenocarcinoma, Surgical resection

Table 28-1

Treatment for liver metastasis, by site

Site	Resection of liver metastasis			Total
	Complete	Incomplete	X	
I	0	0	0	0
V	0	0	0	0
C	6	2	0	8
A	15	8	1	24
T	15	5	0	20
D	5	1	0	6
S	34	7	2	43
Rs	19	11	1	31
Ra	24	5	1	30
Rb	15	5	4	24
P	0	0	0	0
Colon	75	23	3	101
Rectum	58	21	6	85
Total	133	44	9	186

Table 28-2

Treatment for liver metastasis

Liver metastasis	Resection of liver metastasis			Total
	Complete	Incomplete	X	
H1	103	9	1	113
H2	24	15	1	40
H3	6	20	5	31
HX	0	0	2	2
Total	133	44	9	186

III) Adenocarcinoma, Surgical resection

Table 28-3

Treatment for liver metastasis, by site

Treatment modality other than hepatectomy

Site	Ethanol	MCT	OTH	Total
I	0	0	0	0
V	0	0	0	0
C	1	1	7	9
A	2	1	17	20
T	0	3	3	6
D	0	0	0	0
S	3	4	28	35
Rs	0	3	10	13
Ra	0	2	17	19
Rb	0	2	6	8
P	0	0	0	0
Colon	6	9	55	70
Rectum	0	7	33	40
Total	6	16	88	110

Table 28-4

Treatment for liver metastasis

Treatment modality other than hepatectomy

Liver metastasis	Ethanol	MCT	OTH	Total
H1	2	6	16	24
H2	1	4	16	21
H3	3	6	56	65
Total	6	16	88	110

Ethanol ethanol injection therapy

MCT microwave coagulothorapy

Table 29-1Curability of surgical resection, macroscopic, by site

Site	Curability of surgical resection					Total
	Cur A	Cur B	Cur C	Not resected	X	
I	2	0	0	0	0	2
V	12	4	4	0	0	20
C	300	37	85	6	0	428
A	688	64	132	8	0	892
T	485	47	81	14	1	628
D	264	25	42	2	0	333
S	1,335	114	261	5	1	1,716
Rs	598	52	120	8	0	778
Ra	648	73	118	6	1	846
Rb	870	89	104	7	2	1,072
P	27	4	8	1	0	40
Colon	3,086	291	605	35	2	4,019
Rectum	2,143	218	350	22	3	2,736
Total	5,229	509	955	57	5	6,755

Cur A No residual tumors

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

Cur C Definite residual tumors

Table 29-2Curability of surgical resection, microscopic, by site

Site	Curability of surgical resection					Total
	cur A	cur B	cur C	Not resected	X	
I	2	0	0	0	0	2
V	15	1	4	0	0	20
C	293	35	88	6	6	428
A	688	46	143	8	7	892
T	481	43	82	14	8	628
D	257	22	47	2	5	333
S	1,319	114	259	5	19	1,716
Rs	590	52	121	8	7	778
Ra	636	74	121	6	9	846
Rb	846	88	110	7	21	1,072
P	28	3	8	1	0	40
Colon	3,055	261	623	35	45	4,019
Rectum	2,100	217	360	22	37	2,736
Total	5,155	478	983	57	82	6,755

cur A No residual tumors

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

cur C Definite residual tumors

Table 30-1
Histological stage, by site

Site	Histological stage							Total
	0	I	II	IIIa	IIIb	IV	X	
I	0	0	0	2	0	0	0	2
V	0	1	6	3	3	5	2	20
C	40	57	109	80	28	101	13	428
A	76	118	263	151	110	158	16	892
T	55	89	186	113	60	101	24	628
D	22	57	108	71	15	49	11	333
S	79	342	463	363	148	276	45	1,716
Rs	26	141	220	163	74	136	18	778
Ra	60	147	207	192	82	134	24	846
Rb	74	288	219	196	127	93	75	1,072
P	1	8	7	8	11	2	3	40
Colon	272	664	1,135	783	364	690	111	4,019
Rectum	161	584	653	559	294	365	120	2,736
Total	433	1,248	1,788	1,342	658	1,055	231	6,755

Table 30-2
Histological stage, by curability of surgical resection

Curability	Histological stage							Total
	0	I	II	IIIa	IIIb	IV	X	
cur A	429	1,229	1,719	1,177	517	5	79	5,155
cur B	2	5	38	90	105	216	22	478
cur C	0	2	22	65	34	803	57	983
Not resected	0	0	0	0	0	24	33	57
X	2	12	9	10	2	7	40	82
Total	433	1,248	1,788	1,342	658	1,055	231	6,755

Table 31
Accompanied lesion

Accompanied lesion	Site											Total
	I	V	C	A	T	D	S	Rs	Ra	Rb	P	
Adenoma	0	2	80	189	120	64	294	128	146	147	2	1,170
Adenomatosis	0	0	4	10	1	1	18	5	6	11	0	56
Ulcerative colitis	0	1	0	0	2	0	1	0	2	1	0	7
Crohn's disease	0	0	0	0	0	0	0	0	0	0	0	0
Radiation colitis	0	0	0	0	0	0	0	0	1	2	0	3
Anal fistula	0	0	0	0	0	0	2	0	0	2	4	8
OTH	0	1	8	14	18	11	38	13	18	24	0	143

Table 32

Site and number of cancers

Site	Number of cancers						Total
	1	2	3	4	>=5	X	
V	0	0	0	0	0	1	1
C	24	0	0	0	0	0	24
A	85	2	2	0	0	0	89
T	66	2	0	0	0	0	68
D	45	5	0	1	0	0	51
S	339	15	5	1	1	1	362
Rs	89	3	0	0	0	0	92
Ra	76	7	0	0	0	1	84
Rb	54	1	1	0	0	0	56
Colon	559	24	7	2	1	2	595
Rectum	219	11	1	0	0	1	232
Total	778	35	8	2	1	3	827

Table 33-1

Endoscopic excision

Modality of endoscopic resection

Site	Modality of endoscopic resection			Total
	Electric cautery	OTH	X	
V	1	0	0	1
C	23	1	0	24
A	85	0	4	89
T	65	1	2	68
D	49	0	2	51
S	341	2	19	362
Rs	85	0	7	92
Ra	78	0	6	84
Rb	56	0	0	56
Colon	564	4	27	595
Rectum	219	0	13	232
Total	783	4	40	827

IV) Adenocarcinoma, Endoscopic excision

Table 33-2Endoscopic excision, evaluation of the excision

Site	Excision			Total
	Complete	Incomplete	X	
V	1	0	0	1
C	20	1	3	24
A	75	5	9	89
T	54	7	7	68
D	43	6	2	51
S	311	30	21	362
Rs	82	6	4	92
Ra	70	7	7	84
Rb	44	5	7	56
Colon	504	49	42	595
Rectum	196	18	18	232
Total	700	67	60	827

Table 33-3Endoscopic excision, evaluation of the retrieval of resected specimens

Site	Specimens			Total
	Complete	Incomplete	X	
V	0	0	1	1
C	22	0	2	24
A	88	0	1	89
T	65	2	1	68
D	48	1	2	51
S	349	8	5	362
Rs	90	2	0	92
Ra	81	1	2	84
Rb	51	4	1	56
Colon	572	11	12	595
Rectum	222	7	3	232
Total	794	18	15	827

Table 34-1

Gross appearance, by site

Site	Gross appearance										Total
	Ip	Isp	Is	IIa	IIa+IIc	IIb	IIc	IIc+IIa	OTH	X	
V	0	1	0	0	0	0	0	0	0	0	1
C	2	8	3	7	0	0	0	0	4	0	24
A	26	22	17	15	3	1	0	1	4	0	89
T	21	17	8	18	1	1	0	0	1	1	68
D	18	14	5	11	1	0	1	0	0	1	51
S	164	106	40	31	6	2	2	0	6	5	362
Rs	26	42	10	10	3	0	0	0	0	1	92
Ra	7	40	17	10	2	0	0	2	2	4	84
Rb	6	27	10	6	3	1	1	0	1	1	56
Colon	231	168	73	82	11	4	3	1	15	7	595
Rectum	39	109	37	26	8	1	1	2	3	6	232
Total	270	277	110	108	19	5	4	3	18	13	827

Table 34-2

Gross appearance, by DI

DI	Gross appearance										Total
	Ip	Isp	Is	IIa	IIa+IIc	IIb	IIc	IIc+IIa	OTH	X	
m	219	196	75	82	7	3	0	2	12	3	599
sm	45	78	32	23	12	2	4	1	4	8	209
mp	1	0	2	0	0	0	0	0	1	0	4
X	5	3	1	3	0	0	0	0	1	2	15
Total	270	277	110	108	19	5	4	3	18	13	827
Depth of submucosal invasion											
slight	27	29	8	5	1	2	2	0	1	1	76
massive	13	40	19	18	9	0	1	0	3	6	109
NOS	5	9	5	0	2	0	1	1	0	1	24

IV) Adenocarcinoma, Endoscopic excision

Table 35DI, by site

DI

Site	m	sm	mp	X	Total	Grade of sm invasion		
						slight	massive	NOS
V	1	0	0	0	1	0	0	0
C	23	0	0	1	24	0	0	0
A	71	17	1	0	89	7	6	4
T	52	10	1	5	68	4	5	1
D	40	11	0	0	51	4	6	1
S	250	105	1	6	362	38	55	12
Rs	64	26	0	2	92	9	14	3
Ra	61	23	0	0	84	8	13	2
Rb	37	17	1	1	56	6	10	1
Colon	437	143	3	12	595	53	72	18
Rectum	162	66	1	3	232	23	37	6
Total	599	209	4	15	827	76	109	24

Table 36-1Histological classification, by site

Histological classification

Site	Carcinoma in adenoma	Carcinoma with adenomatous component	Carcinoma without adenomatous component	X	Total
V	0	0	0	1	1
C	13	6	4	1	24
A	44	22	20	3	89
T	46	9	10	3	68
D	27	11	12	1	51
S	193	87	68	14	362
Rs	49	20	18	5	92
Ra	52	13	16	3	84
Rb	23	12	17	4	56
Colon	323	135	114	23	595
Rectum	124	45	51	12	232
Total	447	180	165	35	827

Table 36-2Histological 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	21	0	0	0	0	3	24
A	77	5	0	0	0	7	89
T	59	2	0	0	0	7	68
D	49	0	0	0	0	2	51
S	307	27	1	0	0	27	362
Rs	75	11	0	0	0	6	92
Ra	60	12	0	0	1	11	84
Rb	47	3	0	1	0	5	56
Colon	514	34	1	0	0	46	595
Rectum	182	26	0	1	1	22	232
Total	696	60	1	1	1	68	827

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 37Lymphatic invasion and sm invasion

sm invasion	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
slight	55	11	0	0	0	10	76
massive	54	25	4	0	0	26	109
NOS	11	5	0	0	0	8	24
Total	120	41	4	0	0	44	209

Table 38Venous invasion and sm invasion

sm invasion	Venous invasion						Total
	V0	V1	V2	V3	v(+)	X	
slight	60	4	0	0	2	10	76
massive	74	6	0	0	1	28	109
NOS	14	1	0	0	1	8	24
Total	148	11	0	0	4	46	209

IV) Adenocarcinoma, Endoscopic excision

Table 39-1Tumor size, by gross appearance

Size	Gross appearance										Total
(mm)	Ip	Isp	Is	IIa	IIa-IIc	IIb	IIc	IIc-IIa	OTH	X	
<=5	4	13	14	11	0	1	0	0	0	0	43
6-10	77	113	37	31	10	2	2	2	1	2	277
11-15	82	81	24	26	3	0	1	0	4	1	222
16-20	55	33	9	16	4	1	0	0	3	0	121
21-30	38	20	16	9	0	0	0	1	3	1	88
31-40	3	6	0	4	0	0	0	0	2	0	15
>40	1	2	0	0	0	0	0	0	0	0	3
X	10	9	10	11	2	1	1	0	5	9	58
Total	270	277	110	108	19	5	4	3	18	13	827

Table 39-2Tumor size, by DI

Size (mm)	DI				X	Total
	m	sm	mp			
<=5	35	7	0		1	43
6-10	210	65	0		2	277
11-15	164	54	1		3	222
16-20	89	28	1		3	121
21-30	65	21	2		0	88
31-40	14	1	0		0	15
>40	2	1	0		0	3
X	20	32	0		6	58
Total	599	209	4		15	827

Table 40

Cut end of the specimen, mucosal and submucosal

		DI					Total
		m	sm		mp	X	
		sm-ce					
m-ce		-	+	X	+		
-	458	84	13	23	1	1	579
+	36	2	3	5	0	12	47
X	105	9	22	48	3	2	201
Total	599	95	38	76	4	15	827

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 should be classified as positive.

Table 41-1

Metastasis, by site

Site	Any metastasis			Total
	No	Yes	X	
V	1	0	0	1
C	24	0	0	24
A	84	0	5	89
T	66	0	2	68
D	50	0	1	51
S	348	6	8	362
Rs	92	0	0	92
Ra	79	3	2	84
Rb	54	1	1	56
Colon	573	6	16	595
Rectum	225	4	3	232
Total	798	10	19	827

IV) Adenocarcinoma, Endoscopic excision

Table 41-2Metastasis, by DI

DI	Any metastasis			Total
	No	Yes	X	
m	595	0	4	599
sm	184	10	15	209
mp	4	0	0	4
X	15	0	0	15
Total	798	10	19	827

Table 42-1Curability 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	19	4	1	0	24
A	75	12	1	1	89
T	57	10	0	1	68
D	45	4	2	0	51
S	302	47	13	0	362
Rs	86	4	2	0	92
Ra	72	8	3	1	84
Rb	45	7	3	1	56
Colon	499	77	17	2	595
Rectum	203	19	8	2	232
Total	702	96	25	4	827

Table 42-2Curability of endoscopic excision, by DI

DI	Evaluation of colorectal endoscopy				Total
	cur A	cur B	cur C	X	
m	557	30	10	2	599
sm	144	50	13	2	209
mp	1	3	0	0	4
X	0	13	2	0	15
Total	702	96	25	4	827

IV) Adenocarcinoma, Endoscopic excision

Table 43-1

Additional surgeryAdditional surgical resection

	Yes	No	Total
Site			
V	0	1	1
C	2	22	24
A	12	77	89
T	9	59	68
D	7	44	51
S	74	288	362
Rs	20	72	92
Ra	22	62	84
Rb	12	44	56
DI			
m	55	544	599
sm	96	113	209
mp	4	0	4
X	3	12	15
sm invasion (sm cancers)			
slight	17	59	76
massive	69	40	109
NOS	10	14	24
Histology, Adenomatous component			
Carcinoma in adenoma	46	401	447
Carcinoma with adenomatous component	42	138	180
Carcinoma without adenomatous component	54	111	165
X	16	19	35
Histological classification			
w/d	120	576	696
m/d	23	37	60
p/d	0	1	1
muc	1	0	1
sig	1	0	1
NOS	13	55	68

Table 43-2Additional surgeryAdditional surgical resection

	Yes	No	Total
m-ce			
-	80	499	579
+	25	22	47
X	53	148	201
sm-ce (sm cancers)			
-	59	334	393
+	28	16	44
X	71	319	390
ly (sm cancers)			
ly0	97	556	653
ly1	24	20	44
ly2	2	2	4
ly3	0	0	0
X	35	91	126
v (sm cancers)			
V0	110	573	683
V1	7	5	12
V2	0	0	0
V3	0	0	0
V(+)	3	1	4
X	38	90	128
Evaluation of colorectal endoscopy			
cur A	100	602	702
cur B	40	56	96
cur C	15	10	25
X	3	1	4

V) Adenocarcinoma, Surgery after endoscopic excision

Table 44

Laparoscopic surgery as additional surgery

Laparoscopic surgery (LS)

Site	No	Yes		X	Total
		LS only	LS assisted		
C	1	0	1	0	2
A	4	0	3	5	12
T	3	0	1	5	9
D	4	0	2	1	7
S	32	1	13	28	74
Rs	8	1	2	9	20
Ra	7	0	3	12	22
Rb	6	0	0	6	12
Colon	44	1	20	39	104
Rectum	21	1	5	27	54
Total	65	2	25	66	158

Table 45

Residual cancer in surgically resected specimen, additional surgery

Residual cancer in the resected specimen

Site	No	Yes	X	Total
C	1	1	0	2
A	9	0	3	12
T	5	3	1	9
D	5	1	1	7
S	51	10	13	74
Rs	14	3	3	20
Ra	15	4	3	22
Rb	7	1	4	12
Colon	71	15	18	104
Rectum	36	8	10	54
Total	107	23	28	158

V) Adenocarcinoma, Surgery after endoscopic excision

Table 46

DI, by site, additional surgery

Site	DI						X	Total
	m	sm	mp	ss/a1	se/a2	si/ai		
C	1	1	0	0	0	0	0	2
A	1	7	0	0	0	0	4	12
T	3	3	1	0	0	0	2	9
D	2	5	0	0	0	0	0	7
S	10	42	5	0	0	0	17	74
Rs	2	14	0	0	0	0	4	20
Ra	5	10	1	0	0	0	6	22
Rb	0	10	1	0	0	0	1	12
Colon	17	58	6	0	0	0	23	104
Rectum	7	34	2	0	0	0	11	54
Total	24	92	8	0	0	0	34	158

Table 47-1

Lymph node metastasis, macroscopic, by site, additional surgery

Site	Lymph node metastasis						Total
	N0	N1	N2	N3	N4	NX	
C	2	0	0	0	0	0	2
A	11	0	0	0	0	1	12
T	8	1	0	0	0	0	9
D	6	1	0	0	0	0	7
S	64	2	0	0	0	8	74
Rs	18	2	0	0	0	0	20
Ra	20	0	0	0	0	2	22
Rb	12	0	0	0	0	0	12
Colon	91	4	0	0	0	9	104
Rectum	50	2	0	0	0	2	54
Total	141	6	0	0	0	11	158

V) Adenocarcinoma, Surgery after endoscopic excision

Table 47-2

Lymph node metastasis, histological, by site, additional surgery

Site	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
C	2	0	0	0	0	0	2
A	9	0	0	0	0	3	12
T	6	1	0	0	0	2	9
D	5	1	0	0	0	1	7
S	54	6	2	0	0	12	74
Rs	16	2	0	0	0	2	20
Ra	18	0	0	0	0	4	22
Rb	9	1	0	0	0	2	12
Colon	76	8	2	0	0	18	104
Rectum	43	3	0	0	0	8	54
Total	119	11	2	0	0	26	158

Table 48

Lymphatic invasion in surgically resected specimen, additional surgery

Site	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
C	2	0	0	0	0	0	2
A	8	0	0	0	0	4	12
T	5	0	0	1	0	3	9
D	4	1	0	0	0	2	7
S	42	8	2	0	0	22	74
Rs	9	5	0	0	0	6	20
Ra	14	3	2	0	0	3	22
Rb	4	6	0	0	0	2	12
Colon	61	9	2	1	0	31	104
Rectum	27	14	2	0	0	11	54
Total	88	23	4	1	0	42	158

V) Adenocarcinoma, Surgery after endoscopic excision

Table 49
Venous invasion in surgically resected specimen, additional surgery

Venous invasion

Site	v0	v1	v2	v3	v(+)	X	Total
C	2	0	0	0	0	0	2
A	8	0	0	0	0	4	12
T	5	1	0	0	0	3	9
D	5	0	0	0	0	2	7
S	44	6	0	0	1	23	74
Rs	12	2	0	0	0	6	20
Ra	18	1	0	0	0	3	22
Rb	8	1	0	0	0	3	12
Colon	64	7	0	0	1	32	104
Rectum	38	4	0	0	0	12	54
Total	102	11	0	0	1	44	158

Table 50
Curability of surgical resection, additional surgery

Curability

Site	cur A	cur B	cur C	Not resected	X	Total
C	2	0	0	0	0	2
A	11	0	0	0	1	12
T	8	0	0	0	1	9
D	7	0	0	0	0	7
S	66	0	0	0	8	74
Rs	18	1	0	0	1	20
Ra	21	0	0	0	1	22
Rb	11	0	0	0	1	12
Colon	94	0	0	0	10	104
Rectum	50	1	0	0	3	54
Total	144	1	0	0	1	158

V) Adenocarcinoma, Surgery after endoscopic excision

Table 51
Histological stage, additional surgery

Site	Histological stage							Total
	0	I	II	IIIa	IIIb	IV	X	
C	1	1	0	0	0	0	0	2
A	2	7	0	0	0	0	3	12
T	3	3	0	1	0	0	2	9
D	2	4	0	1	0	0	0	7
S	9	42	0	5	2	0	16	74
Rs	1	16	0	2	0	0	1	20
Ra	4	12	0	0	0	0	6	22
Rb	0	9	0	1	0	0	2	12
Colon	17	57	0	7	2	0	21	104
Rectum	5	37	0	3	0	0	9	54
Total	22	94	0	10	2	0	30	158

Table 52
Operative procedures, additional surgery

1 Operative procedure	Site								Total
	C	A	T	D	S	Rs	Ra	Rb	
Trans-anal resection	0	0	0	0	0	0	1	1	2
Trans-sacral resection	0	0	0	0	0	1	1	1	3
Partial colectomy	0	2	0	0	0	0	0	0	2
Ileocecal resection	2	0	0	0	0	0	0	0	2
Right colectomy	0	10	2	0	0	0	0	0	12
Transverse colectomy	0	0	7	0	0	1	2	0	10
Left colectomy	0	0	0	4	1	0	0	0	5
Sigmoidectomy	0	0	0	3	69	0	0	0	72
HAR	0	0	0	0	0	13	12	0	25
LAR	0	0	0	0	0	4	7	8	19
APR	0	0	0	0	0	0	0	3	3
OTH	0	0	0	0	0	1	0	0	1
X	0	0	0	0	4	0	0	0	4
Total	2	12	9	7	74	20	22	12	158

Malignant neoplasms other than adenocarcinoma

A total of 104 patients with malignancies other than adenocarcinoma was classified into 3 groups.

I)	All-----	104 cases
II)	Surgery-----	87 cases
III)	Endoscopic excision-----	17 cases

Abbreviations of histological typing in this report.

sq	squamous cell carcinoma
as	adenosquamous carcinoma
un	undifferentiated carcinoma
MM	malignant melanoma
LMB	leiomyoblastoma
NHL	non-Hodgikin lymphomas

Table 53-1Age incidence, males

Site	Age									Total
	<20	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	
I	0	0	0	1	2	0	0	0	0	3
V	0	0	1	0	0	0	0	0	0	1
C	0	0	0	1	2	0	0	0	0	3
A	0	0	0	1	0	1	2	0	0	4
T	0	0	0	0	0	1	0	0	0	1
D	0	0	0	0	1	0	0	0	0	1
S	0	0	0	2	1	1	2	1	0	7
Rs	0	0	0	1	0	0	0	0	0	1
Ra	0	0	0	1	2	3	0	1	0	7
Rb	0	0	2	4	10	6	5	1	0	28
P	0	0	0	0	0	0	2	0	0	2
E	0	0	0	0	0	0	0	0	0	0
Colon	0	0	1	5	6	3	4	1	0	20
Rectum	0	0	2	6	12	9	7	2	0	38
Total	0	0	3	11	18	12	11	3	0	58

Table 53-2Age incidence, females

Site	Age									Total
	<20	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	
I	0	0	0	0	0	0	0	0	0	0
V	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	2	0	2	0	0	4
A	0	0	1	0	0	3	1	0	0	5
T	0	0	0	1	1	1	0	0	0	3
D	0	0	0	1	0	0	0	0	0	1
S	0	0	1	0	0	1	0	0	0	2
Rs	0	0	0	0	0	1	0	1	0	2
Ra	0	0	0	0	1	1	0	0	0	2
Rb	0	0	0	1	4	6	1	4	0	16
P	0	0	0	1	2	1	3	1	0	8
E	0	0	0	0	0	0	2	1	0	3
Colon	0	0	2	2	3	5	3	0	0	15
Rectum	0	0	0	2	7	9	6	7	0	31
Total	0	0	2	4	10	14	9	7	0	46

Table 54
Histological typing, by site

Site	Histology								Total
	sq	as	ud	cd	MM	LMB	NHL	OTH	
I	0	0	0	1	0	0	2	0	3
V	0	0	0	0	0	0	1	0	1
C	0	0	2	0	0	0	3	2	7
A	0	2	1	1	0	0	2	3	9
T	0	0	2	0	0	0	0	2	4
D	0	0	1	0	0	0	0	0	1
S	0	1	1	0	0	1	0	4	7
Rs	0	1	1	0	0	0	0	1	3
Ra	0	2	0	1	0	0	0	2	5
Rb	3	1	5	14	1	3	1	6	34
P	9	0	0	0	1	0	0	0	10
E	3	0	0	0	0	0	0	0	3
Colon	0	3	7	2	0	1	8	11	32
Rectum	15	4	6	15	2	3	1	9	55
Total	15	7	13	17	2	4	9	20	87

Table 55Modality of principal treatmet

Treatment	Histology								Total
	sq	as	ud	cd	MM	LMB	NHL	OTH	
None	0	0	0	0	0	0	0	0	0
Surgery	14	7	12	17	2	4	9	20	85
Radiation	1	0	0	0	0	0	0	0	1
OTH	0	0	1	0	0	0	0	0	1
Total	15	7	13	17	2	4	9	20	87

Table 56DI

DI	Histology								Total
	sq	as	ud	cd	MM	LMB	NHL	OTH	
m	0	0	0	0	0	0	0	6	6
sm	1	0	0	12	0	0	0	5	18
mp	1	0	0	0	2	1	0	0	4
ss/a1	4	3	2	1	0	0	2	0	12
se/a2	4	3	6	1	0	0	1	5	20
si/ai	3	0	4	1	0	0	2	3	13
X	2	1	1	2	0	3	4	1	14
Total	15	7	13	17	2	4	9	20	87

Table 57Lymph node metastasis, histological

Lymph node	Histology								Total
	sq	as	ud	cd	MM	LMB	NHL	OTH	
n0	3	1	3	3	1	3	3	15	32
n1	3	1	3	2	0	0	0	0	9
n2	2	1	1	1	0	0	2	0	7
n3	2	0	1	0	0	0	0	1	4
n4	0	1	1	0	0	0	2	3	7
nX	5	3	4	11	1	1	2	1	28
Total	15	7	13	17	2	4	9	20	87

Table 58Tumor size (mm)

Size (mm)	Histology								Total
	sq	as	ud	cd	MM	LMB	NHL	OTH	
<=20	0	0	1	9	1	0	0	4	15
21-40	3	2	2	2	1	0	0	5	15
41-60	6	2	1	1	0	0	2	2	14
61-80	2	2	1	0	0	1	2	1	9
>80	0	0	5	2	0	0	3	2	12
X	4	1	3	3	0	3	2	6	22
Total	15	7	13	17	2	4	9	20	87

Table 59Curability of surgical resection, histological

Curability	Histology								Total
	sq	as	ud	cd	MM	LMB	NHL	OTH	
cur A	7	2	6	12	1	3	5	12	48
cur B	1	0	2	2	0	1	0	1	7
cur C	4	3	3	2	1	0	2	4	19
Not resected	1	1	1	0	0	0	0	0	3
X	2	1	1	1	0	0	2	3	10
Total	15	7	13	17	2	4	9	20	87

III) Other malignancies, Endoscopic excision

Table 60
Histological typing, by site

Site	Histology		Total
	cd	OTH	
C	0	0	0
A	0	0	0
T	0	0	0
D	0	1	1
S	0	2	2
Rs	0	0	0
Ra	0	4	4
Rb	2	8	10
Colon	0	3	3
Rectum	2	12	14
Total	2	15	17

Table 61
Endoscopic excision
Histology

Excision	Histology		Total
	cd	OTH	
Complete	1	15	16
Incomplete	1	0	1
Total	2	15	17

Table 62

DI	Histology		Total
	cd	OTH	
m	0	5	5
sm	2	9	11
X	0	1	1
Total	2	15	17

III) Other malignancies, Endoscopic excision

Table 63

Cut end of the specimen, mucosal and submucosal

DI

	m				sm		mp		Total
m-ce					sm-ce				
		-	+	X		X			
-	4	5	1	0	0	0	10		
+	0	0	1	0	0	0	1		
X	1	2	1	1	1	1	6		
Total	5	7	3	4	1	17			

Table 64

Curability of endoscopic excision

Histology

Curability	Histology		Total
	cd	OEM	
cur A	1	14	15
cur B	1	1	2
cur C	0	0	0
Total	2	15	17

Multi-Institutional Registry of Large Bowel Cancer
in Japan

Vol. 18

Cases treated in 1996

2000年（平成12年）4月25日印刷

2000年（平成12年）5月23日発行

発 行 者

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