

Multi-Institutional Registry of Large Bowel Cancer in Japan

Vol. 43

Cases treated in 2017

Japan Society for Cancer of the Colon and Rectum

全国登録委員会

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まえがき

全国大腸癌登録調査報告書第 43 号 (Multi-Institutional Registry of Large Bowel Cancer in Japan. Vol. 43) をお届けします。本号は 2017 年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 12713 例の調査報告書です。臨床病理学的事項は、大腸癌取り扱い規約第 8 版に従って記載されており、新しい調査項目として EX, perineural invasion, budding が追加されています。いずれの項目も近年国際的に重要視されている病理学的所見ではありますが、その臨床的な意義を確立するための前方視的な real-world data は乏しく、今後更なる集積とその解析が期待されます。本報告書はオンラインのみで公開され、これまでの部位別の検討を一部省略する一方、予後については数値のみでなく生存曲線も掲載しています。それに伴い、従来生命表法で集計していた生存分析は、Kaplan-Meier 法で集計しております。

本邦では全国がん登録や院内がん登録、National Clinical Database (NCD) などの registry が行われ、海外でも SEER database などのビッグデータが存在しますが、大腸癌研究会が行ってきた大腸癌全国登録、いわゆる臓器がん登録は、各入力項目の定義が大腸癌取り扱い規約で定められ、診断基準が統一されている点で世界的に見ても希少なものです。その重要性は今後益々大きくなっていくものと考えます。本邦の質の高い大腸癌の治療は、大腸癌取り扱い規約や大腸癌治療ガイドラインに支えられている面があります。これら大腸癌取り扱い規約や大腸癌治療ガイドラインの作成や改訂において、本全国登録で得られた高質なデータの果たす役割は重要です。

会員施設の先生方におかれましては、本登録の意義をご理解いただき、引き続き登録へのご協力をお願い申し上げます。また、登録いただいた会員施設の先生方には、全国登録データ利用の門戸が開かれています。是非積極的にご活用いただきますようお願い申し上げます。

2026 年 6 月

大腸癌研究会

会長 上野 秀樹

全国大腸癌登録委員会

委員長 小林 宏寿

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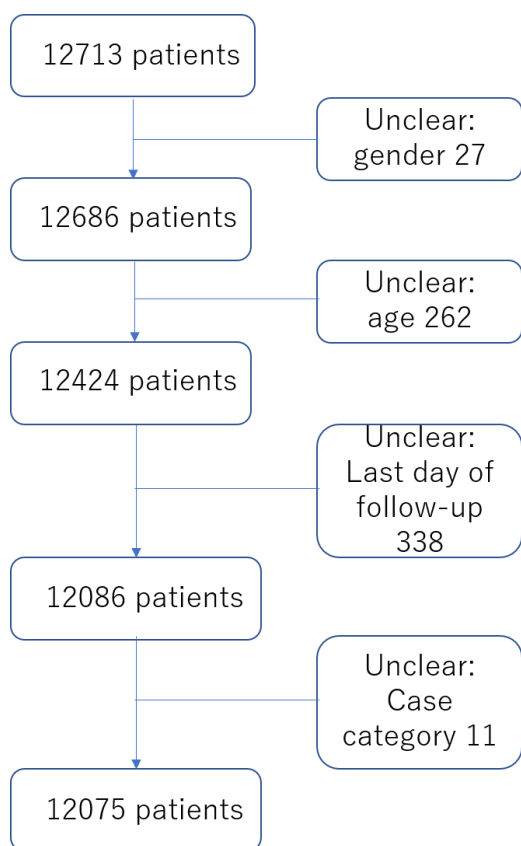
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Data-flow chart (Algorithm of data cleaning)

Analyses were also conducted on patients with some missing data, as the percentage of missing data could provide useful insights for interpreting the data more accurately.

Table 1-Treatment

Treatment	Number	Percentage
Endoscopic excision	1047	8.7
Surgery after endoscopic excision	622	5.2
Surgery	10217	84.6
Non-surgery	189	1.6
Total	12075	100

Table 2-1 Endoscopic excision-Gender

Gender	Number	Percentage
Male	672	64.2
Female	375	35.8
Total	1047	100

Table 2-2 Endoscopic excision-Age

Age (median) 68 (33-92)

Age (mean) 67.0 $\pm$ 11.8

Table 2-3 Endoscopic excision-Age classification

Age classification	Number	Percentage
20-29	0	0
30-39	18	1.7
40-49	83	7.9
50-59	155	14.8
60-69	328	31.3
70-79	323	30.9
80-89	131	12.5
≥ 90	9	0.9
Total	1047	100

Table 2-4 Endoscopic excision-Tumor location

Tumor location	Number	Percentage
Cecum	61	5.8
Ascending	160	15.3
Transverse	122	11.7
Descending	56	5.3
Sigmoid	328	31.3
Rectosigmoid	111	10.6
Upper rectum	77	7.4
Lower rectum	114	10.9
Anal canal	0	0.0
Unknown	18	1.7
Total	1047	100

Table 2-5 Endoscopic excision-Procedure

Procedure	Number	Percentage
Polypectomy	111	10.6
EMR	644	61.5
ESD	275	26.3
Unknown	17	1.6
Total	1047	100

Table 2-6 Endoscopic excision-En bloc or piecemeal

Resection type	Number	Percentage
En bloc	945	90.3
Piecemeal	54	5.2
Unknown	48	4.6
Total	1047	100

Table 2-7 Endoscopic excision-Macroscopic type

Macroscopic type	Number	Percentage
Ip	206	19.7
Isp	243	23.2
Is	212	20.2
Ila	117	11.2
IIb	2	0.2
IIc	12	1.1
Ila+IIc	47	4.5
IIc+Ila	2	0.2
Others	100	9.6
Unknown	106	10.1
Total	1047	100

Table 2-8 Endoscopic excision-Tumor size

Median	15 (3-80) mm
Mean	17.2 $\pm$ 10.1 mm

Table 2-9 Endoscopic excision-Tumor size 2

Tumor size	Number	Percentage
≤ 5 mm	45	4.3
6-10 mm	246	23.5
11-15 mm	238	22.7
16-20 mm	219	20.9
21-30 mm	132	12.6
31-40 mm	38	3.6
>40 mm	31	3.0
Unknown	98	9.4
Total	1047	100

Table 2-10 Endoscopic excision-Histologic type

Histologic type	Number	Percentage
Well differentiated	859	82.1
Moderately differentiated	71	6.8
Poorly differentiated	6	0.6
Mucinous	2	0.2
Adenocarcinoma (NOS)	10	1.0
Neuroendocrine tumor	30	2.9
Others	1	0.1
Unknown	67	6.4
Total	1047	100

Table 2-11 Endoscopic excision-Depth of tumor invasion

Depth of tumor invasion	Number	Percentage
pTis	860	82.1
pT1a	87	8.3
pT1b	66	6.3
pT1(NOS)	22	2.1
pT2	0	0
pT3	0	0
Unknown	12	1.1
Total	1047	100

Table 2-12 Endoscopic excision-Distance of submucosal invasion

Distance of submucosal invasion	
Median 1000 μ m (0-6700)	(N = 100)
Mean 1628 μ m $\pm$ 1723	

Table 2-13 Endoscopic excision-Lymphatic invasion

Lymphatic invasion	Number	Percentage
ly0	1010	96.5
ly1	8	0.8
ly2	0	0
ly3	0	0
ly+ grade unknown	0	0
Unknown	29	2.8
Total	1047	100

Table 2-14 Endoscopic excision-Venous invasion

Venous invasion	Number	Percentage
v0	998	95.3
v1	12	1.1
v2	2	0.2
v3	2	0.2
v+ grade unknown	1	0.1
Unknown	32	3.1
Total	1047	100

Table 2-15 Endoscopic excision-Budding

Budding	Number	Percentage
Grade 1	118	11.3
Grade 2	5	0.5
Grade 3	2	0.2
Unknown	922	88.1
Total	1047	100

Table 2-16 Endoscopic excision-Horizontal margin

Horizontal margin	Number	Percentage
HM0	947	90.4
HM1	15	1.4
Unknown	85	8.1
Total	1047	100

Table 2-17 Endoscopic excision-Vertical margin

Vertical margin	Number	Percentage
VM0	992	94.7
VM1	10	1.0
Unknown	45	4.3
Total	1047	100

Table 2-18 Endoscopic excision-Curability

Curability	Number	Percentage
CurE A	936	89.4
CurE B	45	4.3
CurE C	31	3.0
Unknown	35	3.3
Total	1047	100

Table 3-1 Surgery after endoscopic excision-Gender

Gender	Number	Percentage
Male	360	57.9
Female	262	42.1
Total	622	100

Table 3-2 Surgery after endoscopic excision-Age

Age (median)	66 (23-87)
Age (mean)	64.5 ± 11.5

Table 3-3 Surgery after endoscopic excision-Age classification

Age classification	Number	Percentage
<20	0	0.0
20-29	2	0.3
30-39	11	1.8
40-49	63	10.1
50-59	112	18.0
60-69	209	33.6
70-79	181	29.1
80-89	44	7.1
≥90	0	0
Total	622	100

Table 3-4 Surgery after endoscopic excision-Tumor location

Tumor location	Number	Percentage
Appendix (Processus vermiformis)	0	0
Cecum	33	5.3
Ascending	54	8.7
Transverse	58	9.3
Descending	18	2.9
Sigmoid	211	33.9
Rectosigmoid	76	12.2
Upper rectum	61	9.8
Lower rectum	74	11.9
Proctos (anal canal)	1	0.2
Unknown	36	5.8
Total	622	100

Table 3-5 Surgery after endoscopic excision-Endoscopic procedure

Procedure	Number	Percentage
Polypectomy	31	5.0
EMR	383	61.6
ESD	178	28.6
Unknown	30	4.8
Total	622	100

Table 3-6 Surgery after endoscopic excision-En bloc or piecemeal

Resection	Number	Percentage
En bloc	448	72.0
Piecemeal	70	11.3
Unknown	104	16.7
Total	622	100

Table 3-7 Surgery after endoscopic excision-Macroscopic type

Macroscopic type	Number	Percentage
Ip	86	13.8
Isp	146	23.5
Is	137	22
Ila	83	13.3
Ilb	3	0.5
Ilc	5	0.8
Ila+Ilc	32	5.1
Ilc+Ila	1	0.2
Others	26	4.2
Unknown	103	16.6
Total	622	100

Table 3-8 Surgery after endoscopic excision-Tumor size

Median	15 (5-99) mm
Mean	18.3 ± 12.3 mm

Table 3-9 Surgery after endoscopic excision-Tumor size 2

Tumor size	Number	Percentage
≤5 mm	17	2.7
6-10 mm	102	16.4
11-15 mm	120	19.3
16-20 mm	77	12.4
21-30 mm	64	10.3
31-40 mm	20	3.2
>40 mm	24	3.9
Unknown	198	31.8
Total	622	100

Table 3-10 Surgery after endoscopic excision-Histologic type

Histologic type	Number	Percentage
Well differentiated	364	58.5
Moderately differentiated	144	23.2
Poorly differentiated	7	1.1
Mucinous	5	0.8
Signet ring cell	0	0
Neuroendocrine tumor	21	3.4
Others	2	0.3
Unknown	78	12.5
Total	622	100

Table 3-11 Surgery after endoscopic excision-Depth of tumor invasion (endoscopic)

Depth of tumor invasion	Number	Percentage
pTis	34	5.5
pT1a	56	9.0
pT1b	441	70.9
pT1(NOS)	13	2.1
pT2	6	1.0
pT3	1	0.2
pT4a	0	0
pT4b	0	0
Unknown	71	11.4
Total	622	100

Table 3-12 Surgery after endoscopic excision-Distance of submucosal invasion

Distance of submucosal invasion	
Median 2500 μ m (0-14000)	(N = 365)
Mean 2846 μ m $\pm$ 2045	

Table 3-13 Surgery after endoscopic excision-Lymphatic invasion

Lymphatic invasion	Number	Percentage
ly0	373	60.0
ly1	151	24.3
ly2	13	2.1
ly3	6	1.0
ly+ grade unknown	20	3.2
Unknown	59	9.5
Total	622	100

Table 3-14 Surgery after endoscopic excision-Venous invasion

Venous invasion	Number	Percentage
v0	395	63.5
v1	132	21.2
v2	15	2.4
v3	1	0.2
v+ grade unknown	13	2.1
Unknown	66	10.6
Total	622	100

Table 3-15 Endoscopic excision-Budding

Budding	Number	Percentage
Grade 1	239	38.4
Grade 2	61	9.8
Grade 3	20	3.2
Unknown	302	48.6
Total	622	100

Table 3-16 Surgery after endoscopic excision-Horizontal margin

Horizontal margin	Number	Percentage
HM0	432	69.5
HM1	46	7.4
Unknown	144	23.2
Total	622	100

Table 3-17 Surgery after endoscopic excision-Vertical margin

Vertical margin	Number	Percentage
VM0	372	59.8
VM1	110	17.7
Unknown	140	22.5
Total	622	100

Table 3-18 Surgery after endoscopic excision-Endoscopic curability

Curability	Number	Percentage
CurE A	296	47.6
CurE B	54	8.7
CurE C	152	24.4
Unknown	120	19.3
Total	622	100

Table 3-19 Surgery after endoscopic excision-Operative approach

Operative approach	Number	Percentage
Transanal	5	0.8
Laparoscopic	555	89.2
Open	53	8.5
Others	0	0
Unknown	9	1.4
Total	622	100

Table 3-20 Surgery after endoscopic excision-Lymph node dissection

Lymph node dissection	Number	Percentage
D0	5	0.8
D1	22	3.5
D2	359	57.7
D3	212	34.1
Unknown	24	3.9
Total	622	100

Table 3-21 Surgery after endoscopic excision-Histologic type after surgery

Histologic type	Number	Percentage
Well differentiated	333	53.5
Moderately differentiated	151	24.3
Poorly differentiated	5	0.8
Mucinous	3	0.5
Signet ring cell	0	0
Adenocarcinoma (NOS)	5	0.8
Neuroendocrine tumor	19	3.1
Others	2	0.3
Unknown	95	15.3
Total	622	100

Table 3-22 Surgery after endoscopic excision-Depth of tumor invasion after surgery

Depth of tumor invasion	Number	Percentage
pT0	33	5.3
pTis	30	4.8
pT1a	49	7.9
pT1b	389	62.5
pT1 (NOS)	8	1.3
pT2	12	1.9
pT3	24	3.9
pT4a	0	0.0
pT4b	0	0.0
Unknown	77	12.4
Total	622	100

Table 3-23 Surgery after endoscopic excision-Perineural invasion

Perineural invasion	Number	Percentage
PN0	211	33.9
PN1a	20	3.2
PN1b	2	0.3
Unknown	389	62.5
Total	622	100

Table 3-24 Surgery after endoscopic excision-EX

EX	Number	Percentage
Absent	416	66.9
Tumor deposits predominantly confined to the perineural space	1	0.2
Tumor deposits predominantly confined to the vascular space	2	0.3
Tumor nodule (ND)	4	0.6
ND(v+)	3	0.5
ND (PN+)	0	0.0
Unknown	197	31.7
Total	622	100

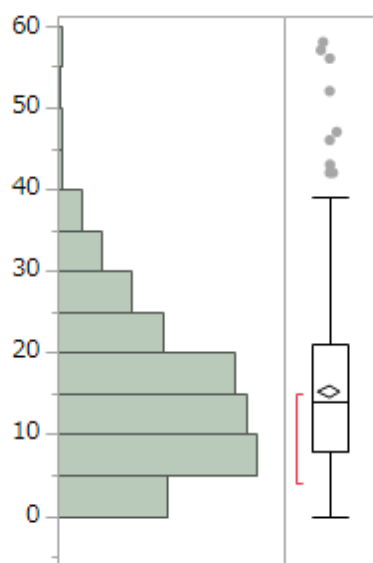
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Table 3-25 Surgery after endoscopic excision-Lymph node metastasis

Lymph node metastasis	Number	Percentage
pN0	526	84.6
pN1	75	12.1
pN2	9	1.5
pN3	1	0.2
Unknown	11	1.8
Total	622	100

Table 3-26 Surgery after endoscopic excision-Number of lymph node retrieved

Number of lymph node retrieved (median)	14 (0-58)
Number of lymph node retrieved (mean)	15.2 $\pm$ 9.8
N = 578	



* 外れ値検出のある箱ひげ図には次のものが表示されます。

- IQR = 第 3 四分位点- 第 1 四分位点
- 箱の端から $1.5 \times \text{IQR}$ までの範囲にある一番遠くの点までのひげ
- 外れ値の可能性のある点
- 半分のオブザベーションが含まれる最も短い範囲を示す赤い括弧

Table 3-27 Surgery after endoscopic excision-Number of positive lymph node

Number of positive node (median)	0 (0-10)
Number of positive node (mean)	0.3 ± 0.9

N = 579

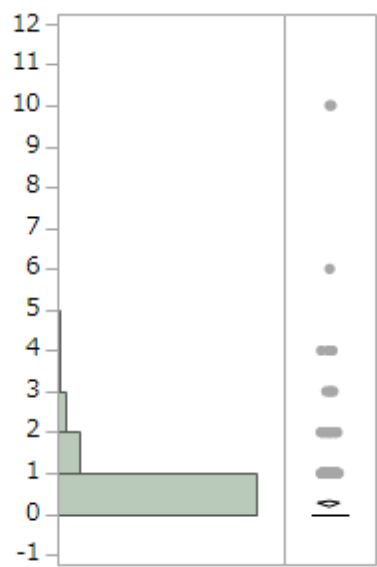


Table 3-28 Surgery after endoscopic excision-Curability after surgery

Curability	Number	Percentage
pCur A	579	93.1
pCur B	4	0.6
pCur C	3	0.5
Unknown	36	5.8
Total	622	100

Table 3-29 Surgery after endoscopic excision-Recurrence after surgery

Recurrence	Number	Percentage
Absent	521	83.8
Present	24	3.9
Unknown	77	12.4
Total	622	100

Table 3-30 Surgery after endoscopic excision-Recurrence site after surgery

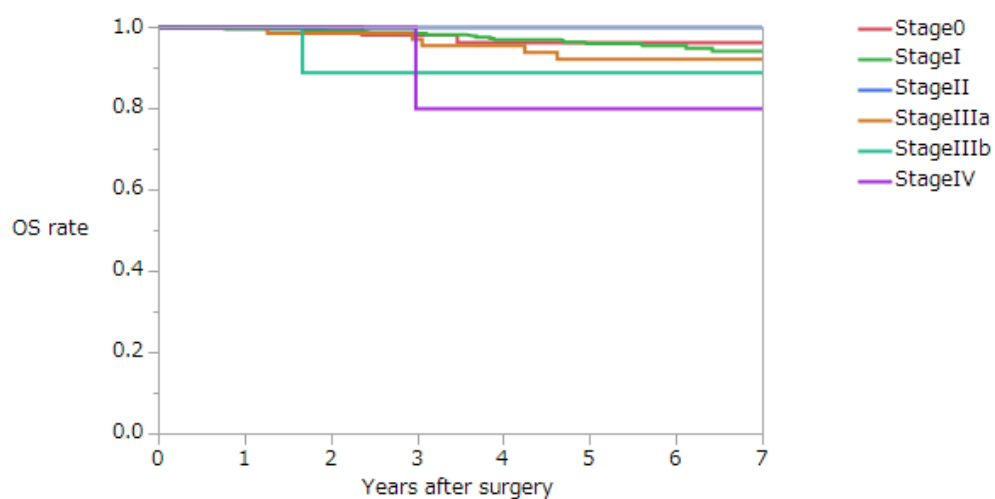
First recurrence site	Number
Anastomosis	1
Regional lymph node	6
Local	0
Peritoneal	0
Liver	6
Lung	9
Lymph node (not regional)	1
Bone	0
Brain	1
Adrenal gland	0
Skin	1
Others	2
(overlapping+)	

Table 3-31 Surgery after endoscopic excision-Treatment for recurrence

Treatment for recurrence	Number
None	8
Curative surgery	13
Palliative surgery	0
Radiotherapy	0
Chemotherapy	5
Others	0
Unknown	0
Total	26

Table3-32 Surgery after endoscopic excision-Overall survival rates after surgery (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
Stage 0	57	100	100	98.2	96.3	96.3
Stage I	385	99.5	98.9	98.4	96.9	95.9
Stage II	11	100	100	100	100	100
Stage IIIa	73	100	98.6	97.1	95.6	92.2
Stage IIIb	9	100	88.9	88.9	88.9	88.9
Stage IV	6	100	100	80	80	80
Unknown	81					
All	622	99.6	98.9	97.9	96.4	95.2



Overall survival of all patients with surgery after endoscopic excision

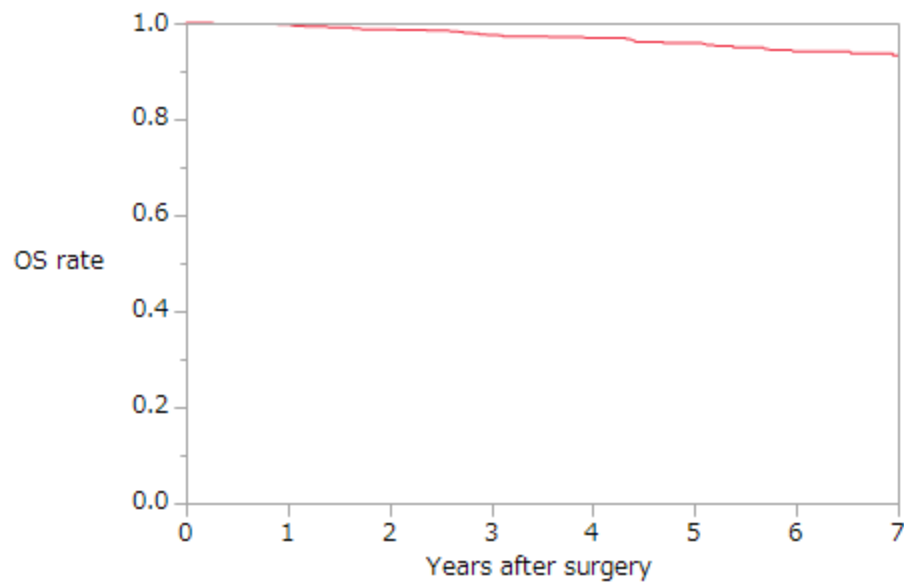


Table 4-1 Surgery-Gender

Gender	Number	Percentage
Male	5860	57.4
Female	4357	42.6
Total	10217	100

Table 4-2 Surgery-Age

Age (median)	70(15-102)
Age (mean)	68.8 $\pm$ 12.0

Table 4-3 Surgery-Age classification

Age classification	Number	Percentage
<20	6	0.06
20-29	39	0.4
30-39	156	1.5
40-49	553	5.4
50-59	1280	12.5
60-69	2916	28.5
70-79	3366	32.9
80-89	1735	17.0
≥ 90	166	1.6
Total	10217	100

Table 4-4 Surgery-Tumor location

Tumor location	Number	Percentage
Appendix (Processus vermiformis)	294	2.9
Cecum	737	7.2
Ascending	1701	16.6
Transverse	932	9.1
Descending	447	4.4
Sigmoid	2321	22.7
Rectosigmoid	1273	12.5
Upper rectum	1003	9.8
Lower rectum	1247	12.2
Proctos (anal canal)	70	0.7
Unknown	192	1.9
Total	10217	100

Table 4-5 Surgery-Preoperative serum CEA value

Preoperative serum CEA value	Number	Percentage
Normal	5424	53.1
<2 x ULN	1878	18.4
<4 x ULN	845	8.3
<8 x ULN	546	5.3
≥8 x ULN	876	8.6
Unknown	648	6.3
Total	10217	100

Table 4-6 Surgery-Multiple primary cancers

Multiple primary cancers	Number	Percentage
Absent	7862	77.0
Synchronous	498	4.9
Metachronous	944	9.2
Synchronous and metachronous	59	0.6
Unknown	854	8.4
Total	10217	100

Table 4-7 Surgery-Synchronous multiple colorectal cancers

Synchronous multiple CRC	Number	Percentage
Absent	9,052	88.6
Present: early cancer	262	2.6
Present: advanced cancer	202	2.0
Present: early and advanced cancer	192	1.9
Unknown	509	5.0
Total	10217	100

Table 4-8 Surgery-Metachronous multiple colorectal cancers

Metachronous multiple CRC	Number	Percentage
Absent	9437	92.4
Present: early cancer	85	0.8
Present: advanced cancer	161	1.6
Present: early and advanced cancer	27	0.3
Unknown	507	5.0
Total	10217	100

Table 4-9 Operative procedure

Operative procedure	Number	Percentage
Polypectomy	31	0.3
Tumorectomy	215	2.1
Local excision	19	0.2
Appendectomy	13	0.1
Ileocecal resection	1141	11.2
Partial colectomy	727	7.1
Right hemicolectomy	1583	15.5
Left hemicolectomy	365	3.6
Sigmoidectomy	1821	17.8
Subtotal colectomy	20	0.2
Total colectomy	11	0.1
Total proctocolectomy	50	0.5
High anterior resection	957	9.4
Low anterior resection	1630	16.0
Ultra-low anterior resection	275	2.7
Intersphincteric resection	155	1.5
Hartmann procedure	363	3.6
Abdominoperineal resection	431	4.2
Total pelvic exenteration	59	0.6
Other types of colectomy	38	0.4
Bypass surgery	5	0.1
Colostomy, ileostomy	45	0.4
Exploratory laparotomy	2	0.02
Other palliative procedures	7	0.1
Unknown	254	2.5
Total	10217	100

Table 4-10 Surgery-Operative approach

Operative approach	Number	Percentage
Transanal	59	0.6
Laparoscopic	6973	68.2
Open	2698	26.4
Others	19	0.2
Unknown	468	4.6
Total	10217	100

Table 4-11 Surgery- Lymph node dissection

Lymph node dissection	Number	Percentage
D0	165	1.6
D1	276	2.7
D2	2153	21.1
D3	6732	65.9
Unknown	891	8.7
Total	10217	100

Table 4-12 Surgery-Tumor size

Tumor size	
Median	40 mm (0-275)
Mean	42.2 ± 23.6 mm
Unknown	2233
Total	10217

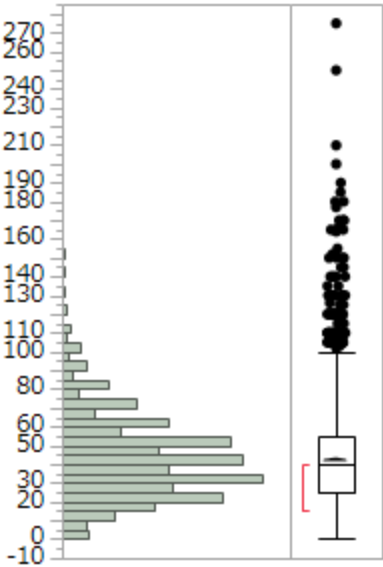


Table 4-13 Surgery-Histologic type

Histologic type	Number	Percentage
Well differentiated	3523	34.5
Moderately differentiated	5329	52.2
Poorly differentiated	308	3.0
Mucinous	379	3.7
Signet ring cell	26	0.3
Medullary carcinoma	16	0.2
Adenocarcinoma (NOS)	18	0.2
Adenosquamous carcinoma	3	0.03
Squamous cell carcinoma	11	0.1
Carcinoid tumor	31	0.3
Endocrine cell carcinoma	12	0.1
Adenoendocrine cell carcinoma	2	0.02
Miscellaneous histological types of malignant epithelial tumors	16	0.2
Malignant lymphoma	11	0.1
Malignant melanoma	2	0.02
Other non-epithelial tumors	11	0.1
Unknown	519	5.1
Total	10217	100

Table 4-14 Surgery-Depth of tumor invasion

Depth of tumor invasion	Number	Percentage
pT0	38	0.4
pTis	278	2.7
pT1a	261	2.6
pT1b	1068	10.5
pT1 (NOS)	58	0.6
pT2	1431	14.0
pT3	4587	44.9
pT4a	1491	14.6
pT4b	566	5.5
Unknown	439	4.3
Total	10217	100

Table 4-15 Surgery-Number of invaded organs during surgery

Number of invaded organs	Number	Percentage
0	2738	36.8
1	492	4.8
2	126	1.2
3	21	0.2
4 or more	9	0.09
Unknown	6831	66.9
Total	10217	100

Table 4-16 Surgery-Lymphatic invasion

Lymphatic invasion	Number	Percentage
ly0	4745	46.4
ly1	3418	33.5
ly2	1069	10.5
ly3	469	4.6
ly+ grade unknown	46	0.5
Unknown	470	4.6
Total	10217	100

Table 4-17 Surgery-Venous invasion

Venous invasion	Number	Percentage
v0	3616	35.4
v1	3410	33.4
v2	1914	18.7
v3	769	7.5
v+ grade unknown	38	0.4
Unknown	470	4.6
Total	10217	100

Table 4-18 Surgery-Interstitium

Interstitium	Number	Percentage
Medullary pattern	549	5.4
Intermediate pattern	6789	66.4
Scirrhus pattern	122	1.2
Unknown	2757	27.0
Total	10217	100

Table 4-19 Surgery-Infiltrative growth pattern

Infiltrative growth pattern	Number	Percentage
INF α	555	5.4
INF β	8247	80.7
INF γ	343	3.4
Unknown	1072	10.5
Total	10217	100

Table 4-20 Surgery-Perineural invasion

Perineural invasion	Number	Percentage
PN0	4923	48.2
PN1a	2078	20.3
PN1b	1095	10.7
Unknown	2121	20.8
Total	10217	100

Table 4-21 Surgery-EX

EX	Number	Percentage
Absent	7085	58.7
Tumor deposits predominantly confined to the perineural space	67	0.6
Tumor deposits predominantly confined to the vascular space	78	0.6
Tumor nodule (ND)	537	4.4
ND(v+)	137	1.1
ND (PN+)	94	0.8
Unknown	4199	34.8
Total	10217	100

(overlapping+)

Table 4-22 Surgery-Budding

Budding	Number	Percentage
Grade 1	1634	16.0
Grade 2	535	5.2
Grade 3	363	3.6
Unknown	7685	75.2
Total	10217	100

Table 4-23 Surgery-Proximal margin

Proximal margin	Number	Percentage
PM0	9496	92.9
PM1	17	0.2
Unknown	704	6.9
Total	10217	100

Table 4-24 Surgery-Distal margin

Distal margin	Number	Percentage
DM0	9448	92.5
DM1	75	0.7
Unknown	694	6.8
Total	10217	100

Table 4-25 Surgery-Circumferential resection margin

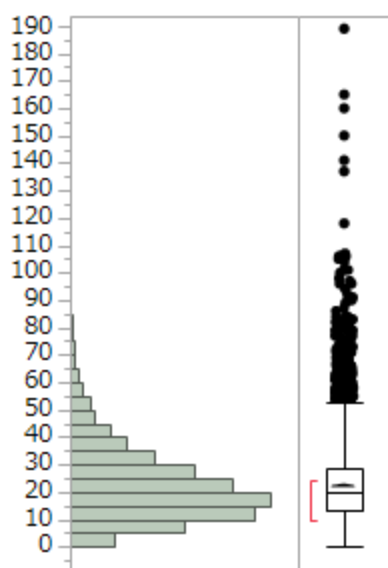
Circumferential resection margin	Number	Percentage
RM0	7565	74.0
RM1	197	1.9
Unknown	2455	24.0
Total	10217	100

Table 4-26 Surgery-lymph node metastasis

Lymph node metastasis	Number	Percentage
pN0	5851	57.3
pN1	2412	23.6
pN2	1065	10.4
pN3	495	4.8
Unknown	394	3.9
Total	10217	100

Table 4-27 Surgery-number of lymph node retrieved (N = 8668)

Number of lymph node retrieved (median)	20 (0-189)
Number of lymph node retrieved (mean)	22.5 $\pm$ 14.4



* 外れ値検出のある箱ひげ図には次のものが表示されます。

- IQR = 第 3 四分位点- 第 1 四分位点
- 箱の端から $1.5 \times \text{IQR}$ までの範囲にある一番遠くの点までのひげ
- 外れ値の可能性のある点
- 半分のオブザベーションが含まれる最も短い範囲を示す赤い括弧

Table 4-28 Surgery-number of positive lymph node (N = 8665)

Number of positive node (median)	0 (0-77)
Number of positive node (mean)	1.6 ± 3.6

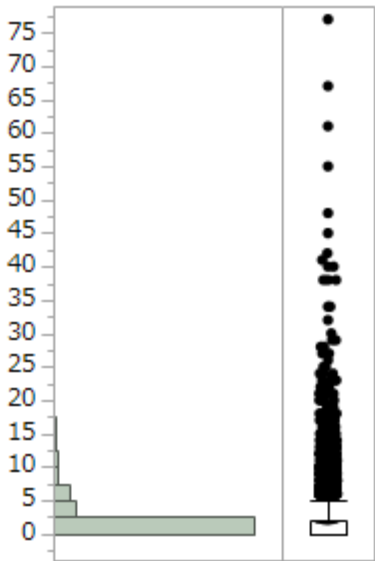


Table 4-29 Surgery-number of paracolic lymph node retrieved (N = 8642)

Number of lymph node retrieved (median)	11 (0-150)
Number of lymph node retrieved (mean)	13.0 ± 9.5

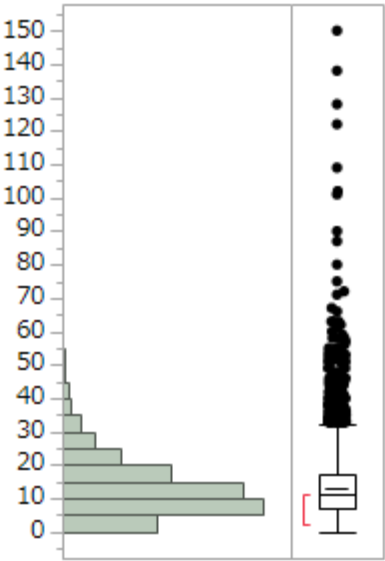


Table 4-30 Surgery-number of positive paracolic lymph node (N = 8652)

Number of positive node (median)	0 (0-55)
Number of positive node (mean)	1.3± 2.8

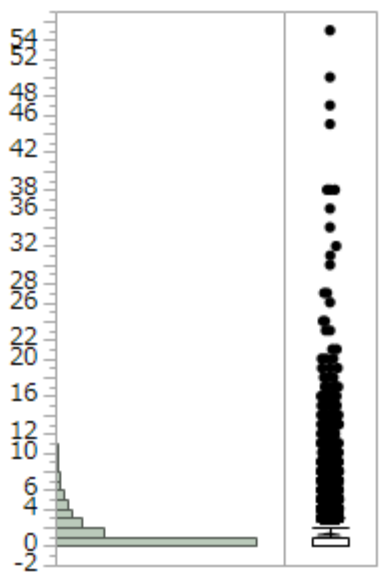


Table 4-31 Surgery-number of intermediate lymph node retrieved (N = 8366)

Number of lymph node retrieved (median)	5 (0-44)
Number of lymph node retrieved (mean)	5.7 ± 4.4

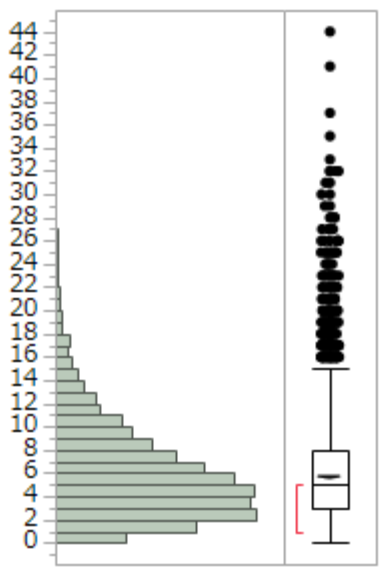


Table 4-32 Surgery-number of positive intermediate lymph node (N = 8360)

Number of positive node (median)	0 (0-35)
Number of positive node (mean)	0.3 ± 1.1

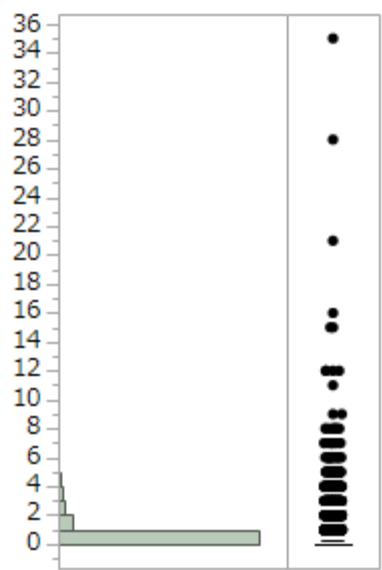


Table 4-33 Surgery-number of main lymph node retrieved (N = 6979)

Number of lymph node retrieved (median)	3 (0-74)
Number of lymph node retrieved (mean)	3.8 ± 3.7

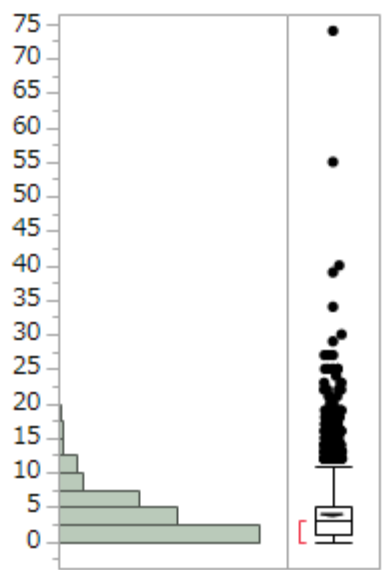


Table 4-34 Surgery-number of positive main lymph node (N = 6949)

Number of positive node (median)	0 (0-38)
Number of positive node (mean)	0.1 ± 0.8

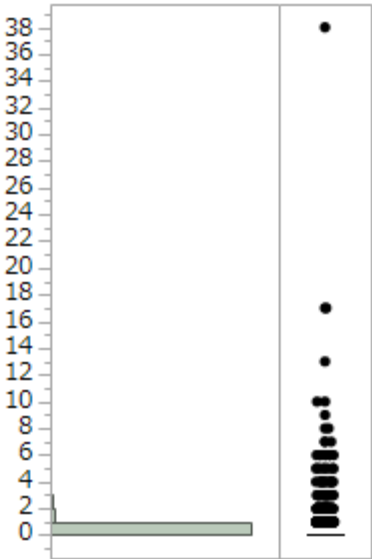


Table 4-35 Surgery-number of lateral pelvic lymph node retrieved (N = 655)

Number of lymph node retrieved (median)	11 (0-65)
Number of lymph node retrieved (mean)	12.3 ± 11.1

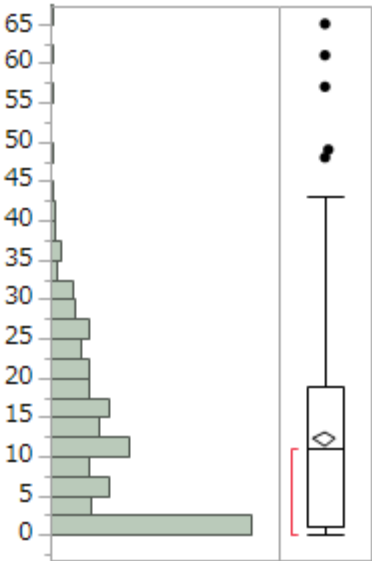


Table 4-36 Surgery-number of positive lateral pelvic lymph node (N = 657)

Number of positive node (median)	0 (0-24)
Number of positive node (mean)	0.4 ± 1.5

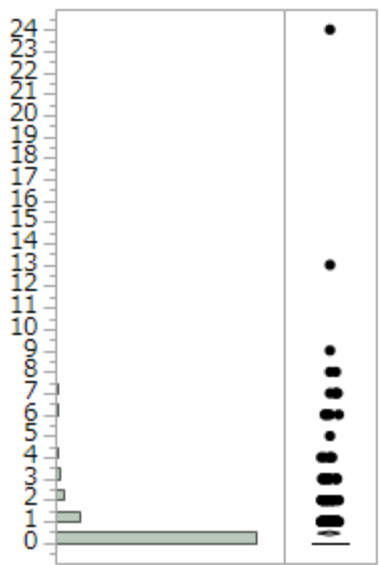


Table 4-37 Surgery-liver metastasis

Liver metastasis	Number	Percentage
H0	5701	55.8
H1	357	3.5
H2	182	1.8
H3	124	1.2
Unknown	3853	37.7
Total	10217	100

Table 4-38 Surgery-Peritoneal metastasis

Peritoneal metastasis	Number	Percentage
P0	6086	59.6
P1	153	1.5
P2	69	0.7
P3	102	1.0
Unknown	3807	37.3
Total	10217	100

Table 4-39 Surgery-Distant metastasis other than liver metastasis

Distant metastasis	Number	Percentage
M0	5608	54.9
M1a	695	6.8
M1b	312	3.1
Unknown	3602	35.3
Total	10217	100

Table 4-40 Surgery-Lung metastasis

Lung metastasis	Number	Percentage
PUL0	5889	57.6
PUL1	184	1.8
PUL2	62	0.6
Unknown	4082	40.0
Total	10217	100

Table 4-41 Surgery-Curability after surgery

Curability	Number	Percentage
pCur A	8025	78.5
pCur B	380	3.7
pCur C	1082	10.6
Unknown	730	7.1
Total	10217	100

Table 4-42 Surgery-Recurrence after surgery

Recurrence	Number	Percentage
Absent	7263	71.1
Present	1822	17.8
Unknown	1132	11.1
Total	10217	100

Table 4-43 Surgery-Recurrence rate according to stage

	Stage 0	Stage I	Stage II	Stage IIIa	Stage IIIb	Stage IV	Unknown	Total
Absent	262 (90.7)	1958 (88.6)	2315 (77.2)	1416 (67.9)	555 (51.4)	512 (44.9)	245 (59.6)	7263 (71.1)
Present	9 (3.1)	97 (4.4)	415 (13.8)	494 (23.7)	415 (38.4)	345 (30.3)	47 (11.4)	1822 (17.8)
Unknown	18 (6.2)	156 (7.1)	269 (9.0)	177 (8.5)	110 (10.2)	283 (24.8)	119 (29.0)	1132 (11.1)
Total	289	2211	2999	2087	1080	1140	411	10217

Table 4-44 Surgery-Recurrence site after surgery

First recurrence site	Number
Anastomosis	81
Regional lymph node	169
Local	135
Peritoneal	342
Liver	685
Lung	532
Lymph node (not regional)	149
Bone	56
Brain	25
Adrenal gland	13
Skin	8
Others	80
(overlapping+)	

Table 4-45 Surgery-Treatment after recurrence

Treatment for recurrence	Number	Percentage
None	325	17.8
Curative surgery	531	29.1
Palliative surgery	28	1.5
Radiation	59	3.2
Chemotherapy	739	40.6
Others	32	1.8
Unknown	108	5.9
Total	1822	100

Table 4-46 Surgery-Overall survival rates after surgery (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
Stage 0	289	97.7	96.4	96.0	94.6	92.0
Stage I	2211	98.8	96.9	95.3	94.2	92.5
Stage II	2999	97.2	93.7	90.5	87.6	84.8
Stage IIIa	2087	96.2	91.1	86.7	82.3	79.4
Stage IIIb	1080	90.8	79.4	72.0	67.3	62.7
Stage IV	1140	83.1	67.8	52.2	42.7	37.4
Unknown	411					
All	10217	95.1	89.5	84.7	81.1	78.1

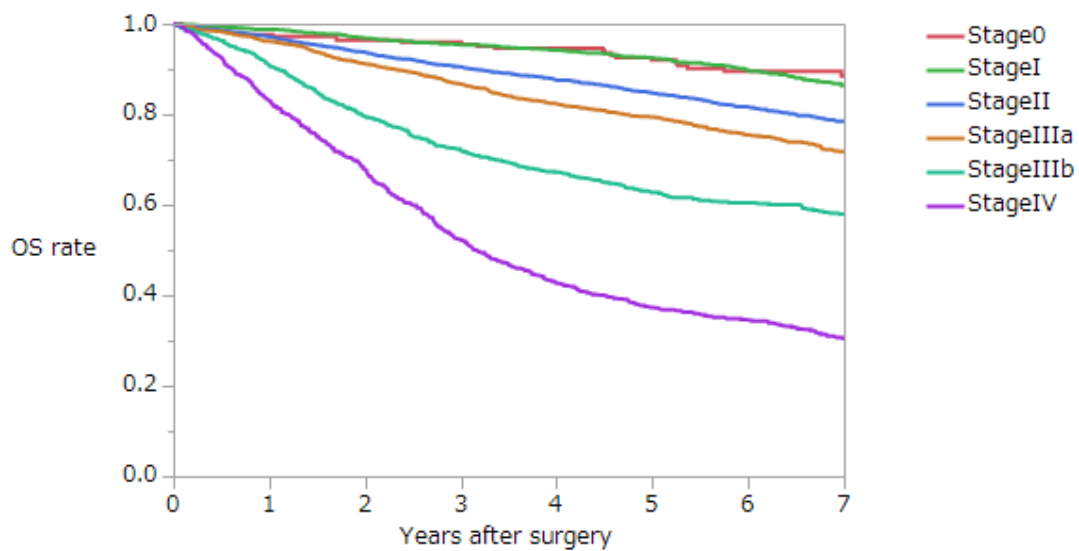


Table 4-47 Surgery-Overall survival rates after surgery (colon) (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
Stage 0	197	96.5	94.5	93.9	92.5	89.2
Stage I	1308	98.9	97.1	95.1	94.2	92.3
Stage II	2022	96.9	93.3	89.9	86.8	84.0
Stage IIIa	1347	95.5	90.6	86.0	81.4	78.8
Stage IIIb	600	89.8	79.0	72.6	68.9	65.4
Stage IV	767	81.9	65.1	50.1	41.5	36.4
All	6241	94.5	88.9	84.1	80.5	77.6

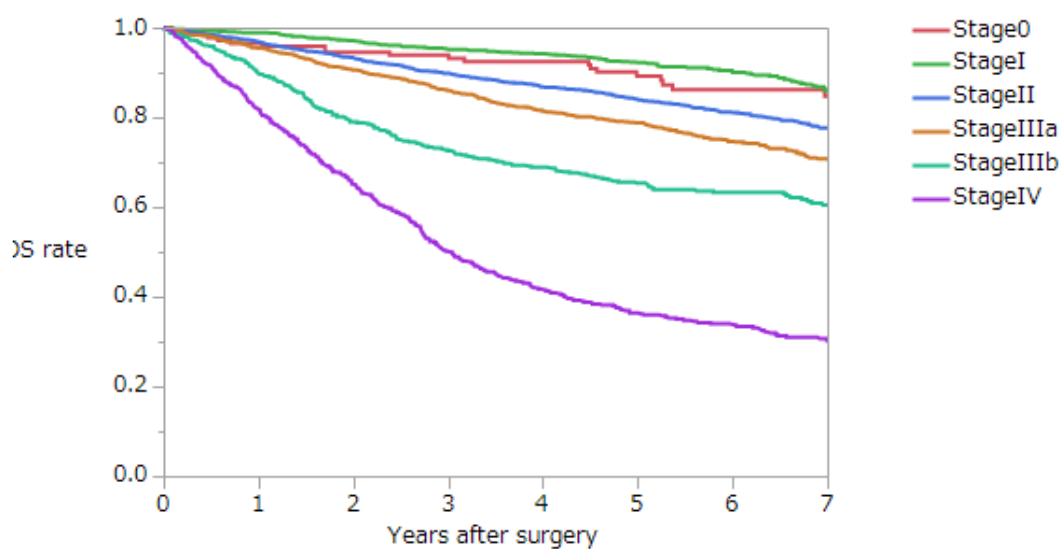


Table 4-48 Surgery-Overall survival rates after surgery (rectum) (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
Stage 0	87	100.0	100.0	100.0	98.6	98.6
Stage I	875	98.7	96.8	95.7	94.3	93.1
Stage II	937	97.9	94.8	91.9	89.4	86.4
Stage IIIa	818	97.4	92.4	88.3	84.2	80.9
Stage IIIb	460	92.1	80.7	71.9	66.7	61.0
Stage IV	346	85.0	72.5	55.5	45.0	39.5
All	3423	96.0	90.9	86.1	82.5	79.4

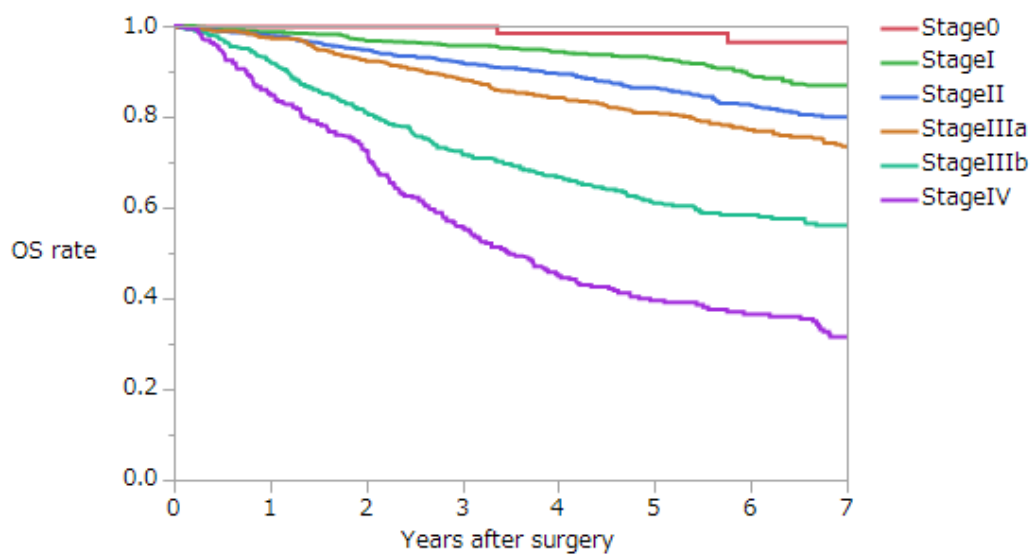


Table 4-49 Surgery-Overall survival rates according to liver metastasis (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
H0	5701	96.7	92.6	89.1	85.9	83.0
H1	357	87.2	73.9	58.9	52.2	45.8
H2	182	81.3	63.8	53.5	42.3	35.9
H3	124	81.5	55.7	32.9	21.1	17.0
Unknown	3853					

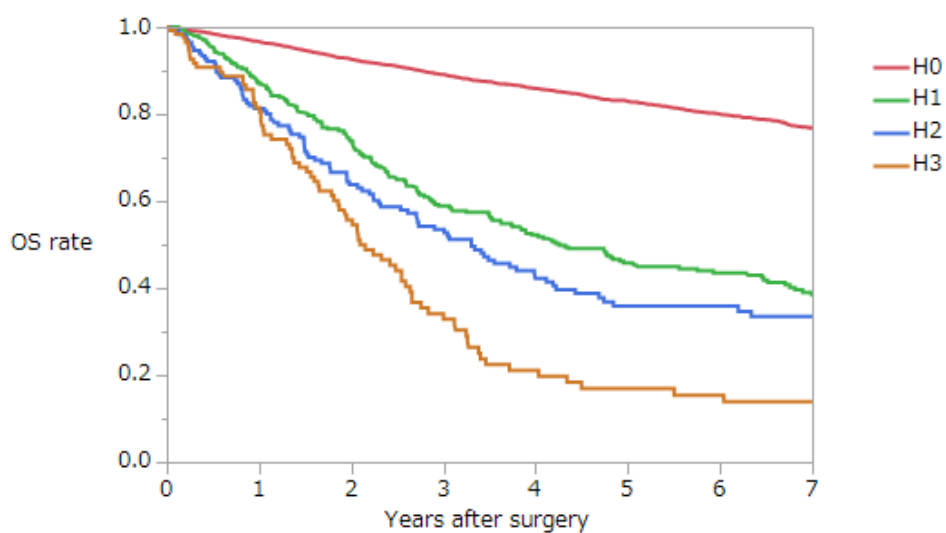


Table 4-50 Surgery-Overall survival rates according to peritoneal metastasis (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
P0	6086	96.4	91.7	87.5	84.0	80.8
P1	153	76.5	58.8	37.9	31.6	24.8
P2	69	71.1	57.7	43.6	33.2	31.1
P3	102	67.7	41.1	22.0	8.5	6.8
Unknown	3807					

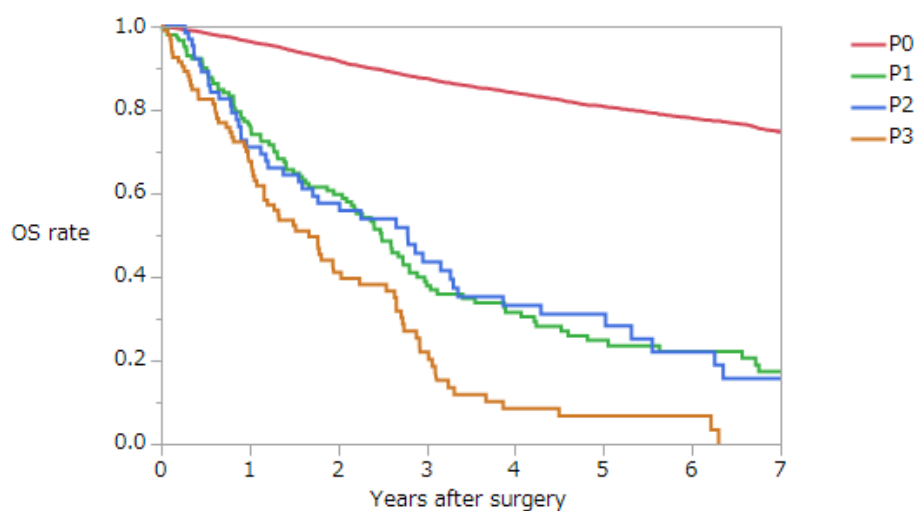


Table 4-51 Surgery-Overall survival rates according to lung metastasis (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
PUL0	5889	95.7	90.8	86.5	83.2	80.1
PUL1	184	89.6	75.0	62.8	50.1	45.6
PUL2	62	78.2	58.0	38.3	23.5	11.9
Unknown	4082					

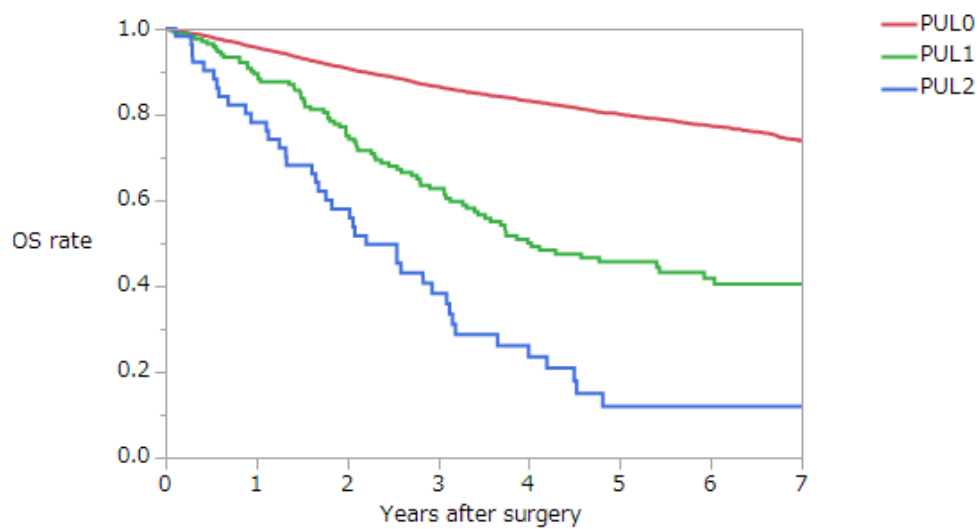


Table 4-52 Surgery-Overall survival rates according to distant metastasis other than liver metastasis (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
M0	5608	97.3	93.8	90.7	88.0	85.1
M1a	695	85.9	72.5	58.8	49.3	43.6
M1b	312	78.3	54.8	34.5	23.9	19.2
Unknown	3602					

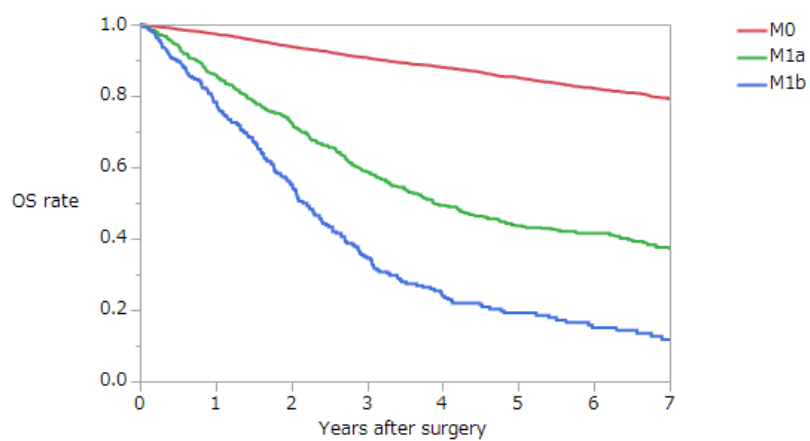
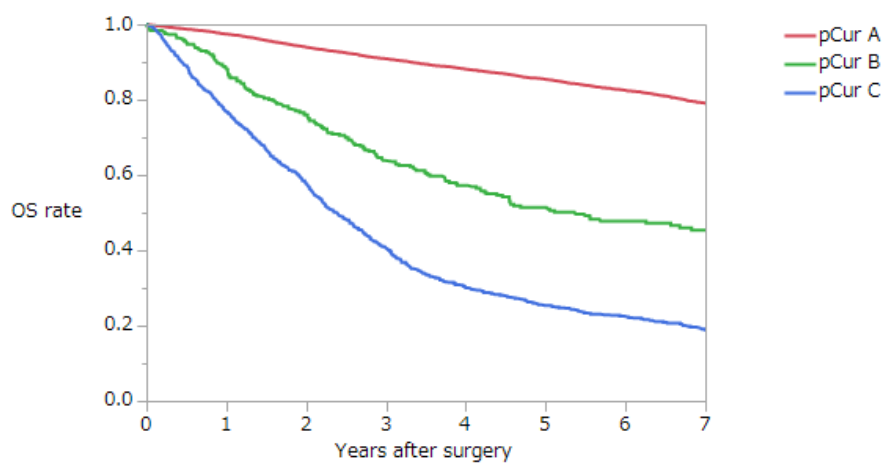


Table 4-53 Surgery-Overall survival rates according to curability (%)

Group	Number of patients	1 year	2 years	3 years	4 years	5 years
pCur A	8025	97.5	94.0	90.9	88.1	85.4
pCur B	380	88.2	76.0	63.6	57.3	51.5
pCur C	1082	76.9	57.6	40.5	30.1	25.4
Unknown	730					



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