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Multi-Institutional Registry of Large Bowel Cancer  
in Japan

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Cases treated in 2006

Japanese Society for Cancer of the Colon and Rectum

## 全国大腸癌登録委員会

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まえがき

全国大腸癌登録調査報告書第32号 (Multi-Institutional Registry of Large Bowel Cancer in Japan. Vol. 32) をお届けします。本号は2006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7892例の調査報告書です。報告書に収められている表の番号と集計項目は、第28号 (1999年治療例) から第31号 (2005年治療例) の各号と同じものです。

全国がん登録が来年1月から義務化されることとなり、本邦におけるがんの罹患や生存の実態が明らかになることが期待されています。また、今後のがん対策、新たな治療法開発への基礎データとしての有用性も期待されます。

一方、これまで大腸癌研究会が行ってまいりました大腸癌全国登録、いわゆる臓器がん登録につきましても、今後その重要性が益々大きくなるものと考えられます。本事業の目的にもありますように「大腸癌の臨床的な研究や診療を支援するための、質の高い情報源を整備する事」は、わが国の今後の大腸癌診療をより良いものとするために不可欠です。

現在、各外科系学会で行われている臓器がん登録につきましては National Clinical Database (NCD) を通じての登録が、全学会横断的に検討されています。しかしながら、大腸癌の登録を NCD への登録だけにしてしまいますと、NCD では生データを利用できないためこれまでのような会員の先生方や各種委員会・プロジェクト研究における登録情報の利用が制限されてしまいます。現在大腸癌研究会では、これまで通り登録していただき、そのデータを簡便に NCD への登録に利用できないか検討しております。日頃ご多忙を極める先生方の負担をこれ以上増やさず、本登録の質を向上させる方策を思案しております。進捗状況につきましては、随時ご報告させていただきます。

本号は、これまで長年にわたり全国大腸癌登録委員会の委員長を務められました固武健二郎先生にご監修いただきました。先生の長年のご功績に深謝申し上げますとともに、新しい委員会に対しましてもご指導・ご鞭撻を賜りますようお願い申し上げます。

会員諸氏におかれましては、本登録の意義をご理解いただきまして、引き続き登録へのご協力をお願い申し上げる次第です。

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2015年10月

大腸癌研究会

会長 杉原 健一

全国大腸癌登録委員会

委員長 小林 宏寿

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### Colon cancer, surgical cases

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## DEFINITIONS OF ABBREVIATIONS AND SYMBOLS

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

### Tumor site

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

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

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

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



Cases treated in 2006

Descriptive data



Table1-1

## Histological type, site and sex

| History            | Site   | Males | Females | Total |
|--------------------|--------|-------|---------|-------|
| Adenocarcinoma     | Colon  | 2,540 | 2,110   | 4,650 |
|                    | Rectum | 1,837 | 1,057   | 2,894 |
|                    | Unkown | 27    | 23      | 50    |
|                    | Total  | 4,404 | 3,190   | 7,594 |
| Other malignancies | Colon  | 42    | 17      | 59    |
|                    | Rectum | 37    | 39      | 76    |
|                    | Unkown |       | 2       | 2     |
|                    | Total  | 79    | 58      | 137   |
| Unkown             | Colon  | 67    | 58      | 125   |
|                    | Rectum | 58    | 30      | 88    |
|                    | Unkown | 18    | 17      | 35    |
|                    | Total  | 143   | 105     | 248   |
| Grand total        |        | 4,626 | 3,353   | 7,979 |

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

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

A total of 87 patients with a malignancy of unkown site was excluded from subsequent analysis.

Table 1-2

## Number of patients treated by surgery

## Histology and site of the tumor

| Histology         | Site   | Surgery |       | Total |
|-------------------|--------|---------|-------|-------|
|                   |        | Yes     | No    |       |
| Adenocarcinoma    | Colon  | 4,650   | (336) | 4,650 |
|                   | Rectum | 2,894   | (144) | 2,894 |
|                   | Total  | 7,544   | (480) | 7,544 |
| Other malignances | Colon  | 59      | (6)   | 59    |
|                   | Rectum | 76      | (14)  | 76    |
|                   | Total  | 135     | (20)  | 135   |
| Unknown           | Colon  | 124     | (21)  | 125   |
|                   | Rectum | 84      | (8)   | 88    |
|                   | Total  | 208     | (29)  | 213   |
| Grand total       |        | 7,887   | (529) | 7,892 |

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

A total of 248 patients with a malignancy of unknown histology (213 patients) and age at treatment (35 patients) was excluded from subsequent analysis.

Table 2

## Modality of principal treatment by histology and site

| Modality            | Adenocarcinoma |        |       | Other malignances |        |       |
|---------------------|----------------|--------|-------|-------------------|--------|-------|
|                     | Colon          | Rectum | Total | Colon             | Rectum | Total |
| Surgery             | 4,281          | 2,734  | 7,015 | 51                | 61     | 112   |
| Endoscopic excision | 335            | 144    | 479   | 6                 | 14     | 20    |
| Radiation(RT)       | 0              | 0      | 0     | 0                 | 0      | 0     |
| Chemotherapy(CT)    | 6              | 3      | 9     | 1                 | 0      | 1     |
| RT+CT               | 0              | 0      | 0     | 0                 | 0      | 0     |
| OTH                 | 3              | 4      | 7     | 0                 | 0      | 0     |
| No treatment        | 0              | 1      | 1     | 0                 | 0      | 0     |
| Total               | 4,625          | 2,886  | 7,511 | 58                | 75     | 133   |

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

A total of 273 patients who had surgery after endoscopic treatment were classified in the "Endoscopic excision" in this report.

## Adenocarcinoma

|      |                                   |       |       |
|------|-----------------------------------|-------|-------|
| I)   | All                               | 7,511 | cases |
| II)  | Surgery                           | 7,032 | cases |
| III) | Surgical resection                | 6,993 | cases |
| IV)  | Endoscopic excision               | 479   | cases |
| V)   | Surgery after endoscopic excision | 273   | cases |

A total of 273 patients who had surgery after endoscopic treatment were classified in the "Endoscopic excision" in this report, although they should be classified into "Surgery" group. Their information about surgery was described independently in detail (pp.58-64)

Table 3-1

## Age-specific incidence, males

| Site   | Age |       |       |       |       |       |       |       |       | Total |
|--------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | <20 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 |       |
| V      | 1   | 0     | 1     | 1     | 0     | 3     | 3     | 0     | 0     | 9     |
| C      | 0   | 0     | 3     | 6     | 35    | 68    | 80    | 33    | 4     | 229   |
| A      | 0   | 2     | 9     | 19    | 73    | 161   | 204   | 82    | 6     | 556   |
| T      | 0   | 0     | 4     | 19    | 62    | 100   | 140   | 51    | 5     | 381   |
| D      | 0   | 0     | 1     | 12    | 29    | 64    | 59    | 16    | 1     | 182   |
| S      | 1   | 4     | 13    | 50    | 219   | 369   | 396   | 107   | 6     | 1,165 |
| Rs     | 0   | 1     | 8     | 27    | 135   | 202   | 154   | 46    | 3     | 576   |
| Ra     | 0   | 4     | 5     | 28    | 130   | 173   | 149   | 31    | 2     | 522   |
| Rb     | 0   | 6     | 19    | 41    | 154   | 269   | 174   | 33    | 4     | 700   |
| P      | 0   | 1     | 1     | 1     | 8     | 8     | 9     | 4     | 1     | 33    |
| Colon  | 2   | 6     | 31    | 107   | 418   | 765   | 882   | 289   | 22    | 2,522 |
| Rectum | 0   | 12    | 33    | 97    | 427   | 652   | 486   | 114   | 10    | 1,831 |
| Total  | 2   | 18    | 64    | 204   | 845   | 1,417 | 1,368 | 403   | 32    | 4,353 |

Table 3-2

## Age-specific incidence, females

| Site   | Age |       |       |       |       |       |       |       |       | Total |
|--------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | <20 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 |       |
| V      | 0   | 0     | 4     | 2     | 0     | 7     | 3     | 3     | 0     | 19    |
| C      | 0   | 1     | 3     | 5     | 36    | 85    | 124   | 68    | 6     | 328   |
| A      | 0   | 0     | 5     | 19    | 69    | 138   | 197   | 91    | 12    | 531   |
| T      | 0   | 0     | 4     | 17    | 45    | 79    | 114   | 44    | 2     | 305   |
| D      | 0   | 1     | 3     | 7     | 25    | 29    | 50    | 14    | 2     | 131   |
| S      | 0   | 3     | 19    | 53    | 196   | 219   | 221   | 66    | 12    | 789   |
| Rs     | 0   | 0     | 7     | 21    | 81    | 92    | 93    | 38    | 7     | 339   |
| Ra     | 0   | 1     | 11    | 18    | 72    | 104   | 84    | 22    | 4     | 316   |
| Rb     | 0   | 2     | 11    | 26    | 102   | 110   | 95    | 32    | 3     | 381   |
| P      | 0   | 0     | 2     | 1     | 3     | 7     | 3     | 3     | 0     | 19    |
| Colon  | 0   | 5     | 38    | 103   | 371   | 557   | 709   | 286   | 34    | 2,103 |
| Rectum | 0   | 3     | 31    | 66    | 258   | 313   | 275   | 95    | 14    | 1,055 |
| Total  | 0   | 8     | 69    | 169   | 629   | 870   | 984   | 381   | 48    | 3,158 |

Table 4-1

## Family history of CRC, by site

| Site   | Family history of CRC |     |       | Total |
|--------|-----------------------|-----|-------|-------|
|        | No                    | Yes | X     |       |
| V      | 20                    | 3   | 5     | 28    |
| C      | 381                   | 45  | 131   | 557   |
| A      | 759                   | 62  | 266   | 1,087 |
| T      | 493                   | 38  | 155   | 686   |
| D      | 217                   | 25  | 71    | 313   |
| S      | 1,346                 | 141 | 467   | 1,954 |
| Rs     | 642                   | 53  | 220   | 915   |
| Ra     | 586                   | 70  | 182   | 838   |
| Rb     | 771                   | 65  | 245   | 1,081 |
| P      | 23                    | 1   | 28    | 52    |
| Colon  | 3,216                 | 314 | 1,095 | 4,625 |
| Rectum | 2,022                 | 189 | 675   | 2,886 |
| Total  | 5,238                 | 503 | 1,770 | 7,511 |

Table 4-2

## Family history of CRC, by age

| Age   | Family history of CRC |     |       | Total |
|-------|-----------------------|-----|-------|-------|
|       | No                    | Yes | X     |       |
| <20   | 2                     | 0   | 0     | 2     |
| 20-29 | 11                    | 7   | 8     | 26    |
| 30-39 | 78                    | 28  | 27    | 133   |
| 40-49 | 253                   | 41  | 79    | 373   |
| 50-59 | 1,036                 | 120 | 318   | 1,474 |
| 60-69 | 1,630                 | 146 | 511   | 2,287 |
| 70-79 | 1,643                 | 130 | 579   | 2,352 |
| 80-89 | 534                   | 28  | 222   | 784   |
| 90-99 | 51                    | 3   | 26    | 80    |
| Total | 5,238                 | 503 | 1,770 | 7,511 |



Table 4-3

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

| Site   | Number of family members with CRC |    |    |     | Total |
|--------|-----------------------------------|----|----|-----|-------|
|        | 1                                 | 2  | 3  | >=4 |       |
| V      | 3                                 | 0  | 0  | 0   | 3     |
| C      | 38                                | 7  | 0  | 0   | 45    |
| A      | 57                                | 3  | 1  | 1   | 62    |
| T      | 32                                | 5  | 0  | 1   | 38    |
| D      | 23                                | 1  | 1  | 0   | 25    |
| S      | 115                               | 23 | 3  | 0   | 141   |
| Rs     | 43                                | 9  | 1  | 0   | 53    |
| Ra     | 59                                | 9  | 2  | 0   | 70    |
| Rb     | 52                                | 10 | 3  | 0   | 65    |
| P      | 1                                 | 0  | 0  | 0   | 1     |
| Colon  | 268                               | 39 | 5  | 2   | 314   |
| Rectum | 155                               | 28 | 6  | 0   | 189   |
| Total  | 423                               | 67 | 11 | 2   | 503   |

Table 4-4

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

| Site   | Family member with CRC |     |     |    |    |    | Total |
|--------|------------------------|-----|-----|----|----|----|-------|
|        | F                      | M   | S   | C  | G  | UA |       |
| V      | 1                      | 0   | 2   | 0  | 0  | 0  | 3     |
| C      | 10                     | 9   | 22  | 3  | 0  | 1  | 45    |
| A      | 10                     | 14  | 26  | 4  | 3  | 4  | 61    |
| T      | 13                     | 6   | 11  | 2  | 1  | 4  | 37    |
| D      | 7                      | 8   | 8   | 0  | 1  | 0  | 24    |
| S      | 32                     | 33  | 49  | 3  | 7  | 15 | 139   |
| Rs     | 11                     | 13  | 18  | 1  | 4  | 5  | 52    |
| Ra     | 23                     | 13  | 22  | 0  | 5  | 4  | 67    |
| Rb     | 21                     | 16  | 14  | 1  | 3  | 8  | 63    |
| P      | 1                      | 0   | 0   | 0  | 0  | 0  | 1     |
| Colon  | 73                     | 70  | 118 | 12 | 12 | 24 | 309   |
| Rectum | 56                     | 42  | 54  | 2  | 12 | 17 | 183   |
| Total  | 129                    | 112 | 172 | 14 | 24 | 41 | 492   |

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

Table 5-1

## Family history of cancers other than CRC, by site

| Site   | Family history of other cancers |       |       | Total |
|--------|---------------------------------|-------|-------|-------|
|        | No                              | Yes   | X     |       |
| V      | 15                              | 8     | 5     | 28    |
| C      | 292                             | 117   | 148   | 557   |
| A      | 589                             | 220   | 278   | 1,087 |
| T      | 388                             | 130   | 168   | 686   |
| D      | 179                             | 60    | 74    | 313   |
| S      | 1,072                           | 387   | 495   | 1,954 |
| Rs     | 506                             | 171   | 238   | 915   |
| Ra     | 471                             | 172   | 195   | 838   |
| Rb     | 607                             | 202   | 272   | 1,081 |
| P      | 19                              | 4     | 29    | 52    |
| Colon  | 2,535                           | 922   | 1,168 | 4,625 |
| Rectum | 1,603                           | 549   | 734   | 2,886 |
| Total  | 4,138                           | 1,471 | 1,902 | 7,511 |

Table 5-2

## Family history of cancers other than CRC, by age

| Age   | Family member with other cancers |       |       | Total |
|-------|----------------------------------|-------|-------|-------|
|       | No                               | Yes   | X     |       |
| <20   | 1                                | 1     | 0     | 2     |
| 20-29 | 9                                | 10    | 7     | 26    |
| 30-39 | 67                               | 36    | 30    | 133   |
| 40-49 | 215                              | 71    | 87    | 373   |
| 50-59 | 808                              | 324   | 342   | 1,474 |
| 60-69 | 1,264                            | 470   | 553   | 2,287 |
| 70-79 | 1,296                            | 428   | 628   | 2,352 |
| 80-89 | 435                              | 119   | 230   | 784   |
| 90-99 | 43                               | 12    | 25    | 80    |
| Total | 4,138                            | 1,471 | 1,902 | 7,511 |

Table 5-3

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

| Site   | Number of family members with other cancers |     |    |     | Total |
|--------|---|-----|----|-----|-------|
|        | 1   | 2   | 3  | >=4 |       |
| V      | 6   | 1   | 0  | 1   | 8     |
| C      | 87  | 26  | 2  | 2   | 117   |
| A      | 154   | 49  | 14 | 3   | 220   |
| T      | 88  | 36  | 4  | 2   | 130   |
| D      | 39  | 17  | 2  | 2   | 60    |
| S      | 283   | 76  | 20 | 8   | 387   |
| Rs     | 101   | 44  | 22 | 4   | 171   |
| Ra     | 122   | 38  | 11 | 1   | 172   |
| Rb     | 147   | 43  | 11 | 1   | 202   |
| P      | 4   | 0   | 0  | 0   | 4     |
| Colon  | 657   | 205 | 42 | 18  | 922   |
| Rectum | 374   | 125 | 44 | 6   | 549   |
| Total  | 1,031                                       | 330 | 86 | 24  | 1,471 |

Table 5-4

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

| Site   | Family member with other cancers |     |     |    |    |    | Total |
|--------|----------------------------------|-----|-----|----|----|----|-------|
|        | F                                | M   | S   | C  | G  | UA |       |
| V      | 4                                | 0   | 2   | 1  | 1  | 0  | 8     |
| C      | 33                               | 24  | 40  | 6  | 4  | 4  | 111   |
| A      | 74                               | 55  | 66  | 5  | 9  | 3  | 212   |
| T      | 38                               | 25  | 48  | 2  | 3  | 5  | 121   |
| D      | 20                               | 11  | 19  | 0  | 1  | 6  | 57    |
| S      | 132                              | 90  | 99  | 8  | 22 | 24 | 375   |
| Rs     | 57                               | 31  | 46  | 3  | 7  | 9  | 153   |
| Ra     | 59                               | 37  | 46  | 3  | 10 | 9  | 164   |
| Rb     | 72                               | 48  | 41  | 7  | 6  | 14 | 188   |
| P      | 2                                | 2   | 0   | 0  | 0  | 0  | 4     |
| Colon  | 301                              | 205 | 274 | 22 | 40 | 42 | 884   |
| Rectum | 190                              | 118 | 133 | 13 | 23 | 32 | 509   |
| Total  | 491                              | 323 | 407 | 35 | 63 | 74 | 1,393 |

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

Table 6-1

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

| Site   | Past history |              |                   |                            |                    |                           |                 |     |     | Total |
|--------|--------------|--------------|-------------------|----------------------------|--------------------|---------------------------|-----------------|-----|-----|-------|
|        | None         | Adeno-<br>ma | Adenom-<br>atosis | Ulcer-<br>ative<br>colitis | Crohn's<br>disease | Radiat-<br>ion<br>colitis | Anal<br>fistula | OTH | X   |       |
| V      | 25           | 0            | 0                 | 0                          | 0                  | 0                         | 0               | 1   | 0   | 26    |
| C      | 434          | 15           | 1                 | 0                          | 0                  | 0                         | 3               | 33  | 29  | 515   |
| A      | 834          | 38           | 1                 | 1                          | 0                  | 0                         | 8               | 74  | 39  | 995   |
| T      | 516          | 35           | 2                 | 0                          | 0                  | 0                         | 4               | 39  | 39  | 635   |
| D      | 232          | 12           | 0                 | 2                          | 0                  | 0                         | 1               | 19  | 17  | 283   |
| S      | 1,455        | 77           | 4                 | 0                          | 0                  | 0                         | 9               | 119 | 119 | 1,783 |
| Rs     | 689          | 25           | 0                 | 1                          | 0                  | 1                         | 3               | 44  | 70  | 833   |
| Ra     | 660          | 30           | 0                 | 1                          | 0                  | 0                         | 6               | 34  | 48  | 779   |
| Rb     | 806          | 34           | 2                 | 4                          | 0                  | 0                         | 6               | 54  | 60  | 966   |
| P      | 27           | 0            | 0                 | 0                          | 0                  | 0                         | 1               | 2   | 1   | 31    |
| Colon  | 3,496        | 177          | 8                 | 3                          | 0                  | 0                         | 25              | 285 | 243 | 4,237 |
| Rectum | 2,182        | 89           | 2                 | 6                          | 0                  | 1                         | 16              | 134 | 179 | 2,609 |
| Total  | 5,678        | 266          | 10                | 9                          | 0                  | 1                         | 41              | 419 | 422 | 6,846 |

Table 6-2

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

| Age   | Past history |              |                   |                            |                    |                           |                 |     |     | Total |
|-------|--------------|--------------|-------------------|----------------------------|--------------------|---------------------------|-----------------|-----|-----|-------|
|       | None         | Adeno-<br>ma | Adenom-<br>atosis | Ulcer-<br>ative<br>colitis | Crohn's<br>disease | Radiat-<br>ion<br>colitis | Anal<br>fistula | OTH | X   |       |
| <20   | 1            | 0            | 1                 | 0                          | 0                  | 0                         | 0               | 0   | 0   | 2     |
| 20-29 | 18           | 1            | 1                 | 0                          | 0                  | 0                         | 0               | 1   | 3   | 24    |
| 30-39 | 104          | 4            | 1                 | 1                          | 0                  | 0                         | 1               | 1   | 9   | 121   |
| 40-49 | 291          | 13           | 0                 | 3                          | 0                  | 0                         | 1               | 11  | 25  | 344   |
| 50-59 | 1,125        | 40           | 2                 | 1                          | 0                  | 0                         | 7               | 59  | 93  | 1,327 |
| 60-69 | 1,732        | 88           | 2                 | 3                          | 0                  | 0                         | 16              | 132 | 121 | 2,094 |
| 70-79 | 1,775        | 91           | 2                 | 1                          | 0                  | 1                         | 11              | 143 | 127 | 2,151 |
| 80-89 | 570          | 28           | 0                 | 0                          | 0                  | 0                         | 4               | 67  | 38  | 707   |
| 90-99 | 62           | 1            | 1                 | 0                          | 0                  | 0                         | 1               | 5   | 6   | 76    |
| Total | 5,678        | 266          | 10                | 9                          | 0                  | 1                         | 41              | 419 | 422 | 6,846 |

Table 7-1

## Measurement of serum carcinoembryonic antigen (CEA), preoperative

| Site   | Serum CEA |              |     | Total |
|--------|-----------|--------------|-----|-------|
|        | Examined  | Not examined | X   |       |
| V      | 22        | 5            | 1   | 28    |
| C      | 504       | 24           | 29  | 557   |
| A      | 943       | 58           | 86  | 1,087 |
| T      | 605       | 41           | 40  | 686   |
| D      | 264       | 17           | 32  | 313   |
| S      | 1,662     | 130          | 162 | 1,954 |
| Rs     | 787       | 38           | 90  | 915   |
| Ra     | 748       | 32           | 58  | 838   |
| Rb     | 913       | 47           | 121 | 1,081 |
| P      | 26        | 4            | 22  | 52    |
| Colon  | 4,000     | 275          | 350 | 4,625 |
| Rectum | 2,474     | 121          | 291 | 2,886 |
| Total  | 6,474     | 396          | 641 | 7,511 |

Table 7-2

## Serum CEA value, preoperative

| Site   | Serum CEA value |       |     |     |     | Total |
|--------|-----------------|-------|-----|-----|-----|-------|
|        | Normal          | <2    | <4  | <8  | >=8 |       |
| V      | 13              | 2     | 2   | 2   | 3   | 22    |
| C      | 285             | 85    | 48  | 38  | 48  | 504   |
| A      | 608             | 125   | 84  | 41  | 85  | 943   |
| T      | 381             | 91    | 41  | 23  | 69  | 605   |
| D      | 147             | 54    | 30  | 10  | 23  | 264   |
| S      | 1,007           | 265   | 128 | 82  | 180 | 1,662 |
| Rs     | 463             | 128   | 67  | 43  | 86  | 787   |
| Ra     | 429             | 116   | 78  | 46  | 79  | 748   |
| Rb     | 578             | 142   | 92  | 41  | 60  | 913   |
| P      | 15              | 4     | 5   | 0   | 2   | 26    |
| Colon  | 2,441           | 622   | 333 | 196 | 408 | 4,000 |
| Rectum | 1,485           | 390   | 242 | 130 | 227 | 2,474 |
| Total  | 3,926           | 1,012 | 575 | 326 | 635 | 6,474 |

Table 8-1

## Multiple primary cancers, by sex

| Multiple primary cancers     | Males | Females | Total |
|------------------------------|-------|---------|-------|
| No                           | 3,594 | 2,706   | 6,300 |
| Synchronous                  | 230   | 123     | 353   |
| Metachronous                 | 391   | 251     | 642   |
| Synchronous and metachronous | 31    | 13      | 44    |
| X                            | 107   | 65      | 172   |
| Total                        | 4,353 | 3,158   | 7,511 |

Table 8-2

## Synchronous multiple primary cancers (multi-answers)

| Organ                | Synchronous cancer |         | Total |
|----------------------|--------------------|---------|-------|
|                      | Males              | Females |       |
| Oral cavity          | 6                  | 0       | 6     |
| Pharynx and larynx   | 3                  | 3       | 6     |
| Esophagus            | 14                 | 2       | 16    |
| Stomach              | 98                 | 36      | 134   |
| Small intestine      | 3                  | 2       | 5     |
| Liver                | 28                 | 26      | 54    |
| Biliary tree         | 5                  | 5       | 10    |
| Pancreas             | 5                  | 4       | 9     |
| Lung                 | 29                 | 16      | 45    |
| Breast               | 2                  | 15      | 17    |
| Uterine cervix       | 0                  | 4       | 4     |
| Uterine corpus       | 1                  | 3       | 4     |
| Uterus, NOS          | 0                  | 0       | 0     |
| Vagina               | 0                  | 0       | 0     |
| Ovary                | 0                  | 4       | 4     |
| Prostate             | 28                 | 3       | 31    |
| Kidney               | 11                 | 5       | 16    |
| Bladder              | 10                 | 1       | 11    |
| Hematopoietic system | 6                  | 0       | 6     |
| Bone and soft tissue | 0                  | 0       | 0     |
| Nervous system       | 0                  | 0       | 0     |
| Thyroid              | 2                  | 1       | 3     |
| Skin                 | 4                  | 0       | 4     |
| OTH                  | 10                 | 6       | 16    |
| Total                | 265                | 136     | 401   |

Table 8-3

## Metachronous multiple primary cancers (multi-anwsers)

| Organ                | Metachronous cancer |         | Total |
|----------------------|---------------------|---------|-------|
|                      | Males               | Females |       |
| Oral cavity          | 8                   | 4       | 12    |
| Pharynx and larynx   | 12                  | 7       | 19    |
| Esophagus            | 17                  | 1       | 18    |
| Stomach              | 129                 | 52      | 181   |
| Small intestine      | 2                   | 0       | 2     |
| Liver                | 23                  | 10      | 33    |
| Biliary tree         | 10                  | 5       | 15    |
| Pancreas             | 12                  | 3       | 15    |
| Lung                 | 55                  | 25      | 80    |
| Breast               | 14                  | 66      | 80    |
| Uterine cervix       | 4                   | 11      | 15    |
| Uterine corpus       | 3                   | 24      | 27    |
| Uterus, NOS          | 0                   | 7       | 7     |
| Vagina               | 0                   | 0       | 0     |
| Ovary                | 1                   | 9       | 10    |
| Prostate             | 67                  | 9       | 76    |
| Kidney               | 12                  | 5       | 17    |
| Bladder              | 28                  | 3       | 31    |
| Hematopoietic system | 15                  | 6       | 21    |
| Bone and soft tissue | 2                   | 2       | 4     |
| Nervous system       | 1                   | 1       | 2     |
| Thyroid              | 3                   | 11      | 14    |
| Skin                 | 7                   | 4       | 11    |
| OTH                  | 28                  | 10      | 38    |
| Total                | 453                 | 275     | 728   |

Table 8-4

## Number of organs of multiple primary cancers

| Multiple primary cancers     | Number of organs |    |   |   |     | Total |
|------------------------------|------------------|----|---|---|-----|-------|
|                              | 1                | 2  | 3 | 4 | X   |       |
| Synchronous                  | 312              | 18 | 1 | 0 | 22  | 353   |
| Metachronous                 | 552              | 49 | 3 | 0 | 38  | 642   |
| Synchronous and metachronous | 6                | 30 | 4 | 1 | 3   | 44    |
| X                            | 3                | 0  | 0 | 0 | 169 | 172   |
| Total                        | 873              | 97 | 8 | 1 | 232 | 1,211 |

Table 9-1

## Metachronous multiple CRC, by sex

| Sex     | Metachronous CRC |              |                 |      |     | Total |
|---------|------------------|--------------|-----------------|------|-----|-------|
|         | No               | Early cancer | Advanced cancer | Both | X   |       |
| Males   | 4,108            | 35           | 68              | 3    | 139 | 4,353 |
| Females | 3,000            | 24           | 42              | 6    | 86  | 3,158 |
| Total   | 7,108            | 59           | 110             | 9    | 225 | 7,511 |

Table 9-2

## Metachronous multiple CRC, by age

| Age    | Metachronous CRC |                 |      | Total |
|--------|------------------|-----------------|------|-------|
|        | Early cancer     | Advanced cancer | Both |       |
| 20-29  | 0                | 1               | 0    | 1     |
| 30-39  | 0                | 2               | 0    | 2     |
| 40-49  | 4                | 7               | 0    | 11    |
| 50-59  | 8                | 14              | 1    | 23    |
| 60-69  | 16               | 28              | 3    | 47    |
| 70-79  | 27               | 41              | 5    | 73    |
| 80-89  | 4                | 15              | 0    | 19    |
| 90-100 | 0                | 2               | 0    | 2     |
| Total  | 59               | 110             | 9    | 178   |

Table 9-3

## Metachronous multiple CRC, by site

| Site   | Metachronous CRC |                 |      | Total |
|--------|------------------|-----------------|------|-------|
|        | Early cancer     | Advanced cancer | Both |       |
| V      | 0                | 0               | 0    | 0     |
| C      | 5                | 8               | 2    | 15    |
| A      | 7                | 19              | 2    | 28    |
| T      | 2                | 25              | 2    | 29    |
| D      | 7                | 14              | 0    | 21    |
| S      | 20               | 20              | 2    | 42    |
| Rs     | 5                | 9               | 0    | 14    |
| Ra     | 5                | 6               | 1    | 12    |
| Rb     | 6                | 9               | 0    | 15    |
| P      | 2                | 0               | 0    | 2     |
| Colon  | 41               | 86              | 8    | 135   |
| Rectum | 18               | 24              | 1    | 43    |
| Total  | 59               | 110             | 9    | 178   |



Table 9-4

## Metachronous multiple CRC, by number of cancers

| Number of cancers | Metachronous CRC |                 |      | Total |
|-------------------|------------------|-----------------|------|-------|
|                   | Early cancer     | Advanced cancer | Both |       |
| 1                 | 50               | 82              | 0    | 132   |
| 2                 | 4                | 14              | 6    | 24    |
| 3                 | 1                | 0               | 0    | 1     |
| 4                 | 0                | 0               | 1    | 1     |
| >=5               | 0                | 0               | 1    | 1     |
| X                 | 4                | 14              | 1    | 19    |
| Total             | 59               | 110             | 9    | 178   |

Table 9-5

## Metachronous multiple CRC, by site of metachronous cancer

| Site       | Metachronous CRC |                 |      | Total |
|------------|------------------|-----------------|------|-------|
|            | Early cancer     | Advanced cancer | Both |       |
| Colon      | 41               | 63              | 4    | 108   |
| Rectum     | 11               | 29              | 0    | 40    |
| Both       | 1                | 1               | 4    | 6     |
| Anal canal | 0                | 2               | 0    | 2     |
| OTH        | 1                | 0               | 0    | 1     |
| X          | 5                | 15              | 1    | 21    |
| Total      | 59               | 110             | 9    | 178   |

Table 10-1

## Number of synchronous multiple CRC, by site

| Site   | Number of cancers |     |     |    |   |   |     | X   | Total |
|--------|-------------------|-----|-----|----|---|---|-----|-----|-------|
|        | 1                 | 2   | 3   | 4  | 5 | 6 | >=7 |     |       |
| V      | 26                | 1   | 0   | 0  | 0 | 0 | 0   | 1   | 28    |
| C      | 479               | 14  | 9   | 1  | 0 | 0 | 0   | 29  | 532   |
| A      | 914               | 38  | 15  | 6  | 3 | 1 | 2   | 57  | 1,036 |
| T      | 551               | 30  | 19  | 2  | 0 | 0 | 0   | 37  | 639   |
| D      | 254               | 13  | 5   | 2  | 1 | 0 | 0   | 16  | 291   |
| S      | 1,561             | 55  | 38  | 3  | 2 | 1 | 1   | 103 | 1,764 |
| Rs     | 773               | 23  | 20  | 1  | 1 | 0 | 0   | 40  | 858   |
| Ra     | 716               | 29  | 8   | 2  | 1 | 0 | 0   | 43  | 799   |
| Rb     | 933               | 31  | 14  | 3  | 0 | 0 | 0   | 53  | 1,034 |
| P      | 50                | 0   | 0   | 0  | 0 | 0 | 0   | 1   | 51    |
| Colon  | 3,785             | 151 | 86  | 14 | 6 | 2 | 3   | 243 | 4,290 |
| Rectum | 2,472             | 83  | 42  | 6  | 2 | 0 | 0   | 137 | 2,742 |
| Total  | 6,257             | 234 | 128 | 20 | 8 | 2 | 3   | 380 | 7,032 |

Table 10-2

## Number of synchronous multiple CRC, by age

| Site  | Number of cancers |     |     |    |   |   |     | X   | Total |
|-------|-------------------|-----|-----|----|---|---|-----|-----|-------|
|       | 1                 | 2   | 3   | 4  | 5 | 6 | >=7 |     |       |
| <20   | 2                 | 0   | 0   | 0  | 0 | 0 | 0   | 0   | 2     |
| 20-29 | 21                | 2   | 1   | 0  | 0 | 0 | 0   | 1   | 25    |
| 30-39 | 120               | 2   | 1   | 0  | 0 | 0 | 0   | 3   | 126   |
| 40-49 | 307               | 7   | 2   | 1  | 0 | 0 | 0   | 20  | 337   |
| 50-59 | 1,244             | 33  | 24  | 1  | 0 | 0 | 1   | 81  | 1,384 |
| 60-69 | 1,886             | 72  | 35  | 12 | 3 | 1 | 1   | 111 | 2,121 |
| 70-79 | 1,948             | 90  | 45  | 5  | 4 | 1 | 1   | 101 | 2,195 |
| 80-89 | 659               | 23  | 19  | 1  | 1 | 0 | 0   | 60  | 763   |
| 90-99 | 70                | 5   | 1   | 0  | 0 | 0 | 0   | 3   | 79    |
| Total | 6,257             | 234 | 128 | 20 | 8 | 2 | 3   | 380 | 7,032 |

Table 10-3

Number of synchronous multiple CRC, males, by age

| Site  | Number of cancers |     |    |    |   |   |     |     | Total |
|-------|-------------------|-----|----|----|---|---|-----|-----|-------|
|       | 1                 | 2   | 3  | 4  | 5 | 6 | >=7 | X   |       |
| <20   | 2                 | 0   | 0  | 0  | 0 | 0 | 0   | 0   | 2     |
| 20-29 | 14                | 2   | 1  | 0  | 0 | 0 | 0   | 0   | 17    |
| 30-39 | 56                | 2   | 0  | 0  | 0 | 0 | 0   | 3   | 61    |
| 40-49 | 160               | 4   | 2  | 1  | 0 | 0 | 0   | 13  | 180   |
| 50-59 | 702               | 23  | 18 | 1  | 0 | 0 | 1   | 48  | 793   |
| 60-69 | 1,133             | 54  | 29 | 10 | 2 | 1 | 0   | 64  | 1,293 |
| 70-79 | 1,116             | 52  | 37 | 3  | 3 | 1 | 1   | 64  | 1,277 |
| 80-89 | 329               | 15  | 12 | 1  | 1 | 0 | 0   | 35  | 393   |
| 90-99 | 26                | 3   | 0  | 0  | 0 | 0 | 0   | 3   | 32    |
| Total | 3,538             | 155 | 99 | 16 | 6 | 2 | 2   | 230 | 4,048 |

Table 10-4

Number of synchronous multiple CRC, females, by age

| Site  | Number of cancers |    |    |   |   |   |     |     | Total |
|-------|-------------------|----|----|---|---|---|-----|-----|-------|
|       | 1                 | 2  | 3  | 4 | 5 | 6 | >=7 | X   |       |
| <20   | 0                 | 0  | 0  | 0 | 0 | 0 | 0   | 0   | 0     |
| 20-29 | 7                 | 0  | 0  | 0 | 0 | 0 | 0   | 1   | 8     |
| 30-39 | 64                | 0  | 1  | 0 | 0 | 0 | 0   | 0   | 65    |
| 40-49 | 147               | 3  | 0  | 0 | 0 | 0 | 0   | 7   | 157   |
| 50-59 | 542               | 10 | 6  | 0 | 0 | 0 | 0   | 33  | 591   |
| 60-69 | 753               | 18 | 6  | 2 | 1 | 0 | 1   | 47  | 828   |
| 70-79 | 832               | 38 | 8  | 2 | 1 | 0 | 0   | 37  | 918   |
| 80-89 | 330               | 8  | 7  | 0 | 0 | 0 | 0   | 25  | 370   |
| 90-99 | 44                | 2  | 1  | 0 | 0 | 0 | 0   | 0   | 47    |
| Total | 2,719             | 79 | 29 | 4 | 2 | 0 | 1   | 150 | 2,984 |

Table 11-1

## Macroscopic type of tumor, by site

| Site   | Macroscopic type |        |        |        |        |        |     | X   | Total |
|--------|------------------|--------|--------|--------|--------|--------|-----|-----|-------|
|        | Type 0           | Type 1 | Type 2 | Type 3 | Type 4 | Type 5 | OTH |     |       |
| V      | 3                | 5      | 4      | 4      | 1      | 6      | 3   | 2   | 28    |
| C      | 67               | 78     | 307    | 54     | 0      | 9      | 2   | 15  | 532   |
| A      | 126              | 72     | 693    | 103    | 3      | 13     | 2   | 24  | 1,036 |
| T      | 97               | 49     | 390    | 66     | 3      | 6      | 2   | 26  | 639   |
| D      | 32               | 23     | 194    | 33     | 2      | 2      | 1   | 4   | 291   |
| S      | 206              | 145    | 1,208  | 136    | 10     | 15     | 3   | 41  | 1,764 |
| Rs     | 66               | 86     | 602    | 63     | 10     | 12     | 1   | 18  | 858   |
| Ra     | 61               | 68     | 559    | 67     | 4      | 20     | 1   | 19  | 799   |
| Rb     | 133              | 70     | 699    | 76     | 6      | 19     | 4   | 27  | 1,034 |
| P      | 6                | 1      | 21     | 10     | 0      | 4      | 5   | 4   | 51    |
| Colon  | 531              | 372    | 2,796  | 396    | 19     | 51     | 13  | 112 | 4,290 |
| Rectum | 266              | 225    | 1,881  | 216    | 20     | 55     | 11  | 68  | 2,742 |
| Total  | 797              | 597    | 4,677  | 612    | 39     | 106    | 24  | 180 | 7,032 |

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

Type 1 Protuberant type

Type 2 Ulcerated type with clear margin

Type 3 Ulcerated type with infiltration

Type 4 Diffusely infiltrating type

Type 5 Unclassified type

Table 11-2

## Macroscopic type of Type 0 cancer

| Site   | Macroscopic type |     |     |     |         |     |     |         |     |    | Total |
|--------|------------------|-----|-----|-----|---------|-----|-----|---------|-----|----|-------|
|        | Ip               | Isp | Is  | IIa | IIa+IIc | IIb | IIc | IIc+IIa | OTH | X  |       |
| V      | 0                | 2   | 0   | 0   | 0       | 0   | 0   | 0       | 1   | 0  | 3     |
| C      | 3                | 9   | 9   | 26  | 9       | 0   | 6   | 0       | 0   | 5  | 67    |
| A      | 9                | 23  | 12  | 29  | 17      | 4   | 12  | 4       | 3   | 13 | 126   |
| T      | 8                | 11  | 10  | 24  | 18      | 3   | 6   | 11      | 2   | 4  | 97    |
| D      | 4                | 6   | 2   | 8   | 5       | 0   | 0   | 4       | 1   | 2  | 32    |
| S      | 31               | 46  | 26  | 24  | 33      | 1   | 12  | 9       | 4   | 20 | 206   |
| Rs     | 5                | 14  | 10  | 12  | 11      | 0   | 1   | 6       | 2   | 5  | 66    |
| Ra     | 2                | 6   | 7   | 15  | 9       | 0   | 0   | 7       | 7   | 8  | 61    |
| Rb     | 2                | 20  | 29  | 37  | 11      | 1   | 6   | 7       | 8   | 12 | 133   |
| P      | 1                | 2   | 1   | 1   | 1       | 0   | 0   | 0       | 0   | 0  | 6     |
| Colon  | 55               | 97  | 59  | 111 | 82      | 8   | 36  | 28      | 11  | 44 | 531   |
| Rectum | 10               | 42  | 47  | 65  | 32      | 1   | 7   | 20      | 17  | 25 | 266   |
| Total  | 65               | 139 | 106 | 176 | 114     | 9   | 43  | 48      | 28  | 69 | 797   |

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

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

Table 12

## Tumor location, by circumferential division of the bowel wall

| Site   | Circumferential division of the bowel wall |                    |                    |                    |          |     |       | Total |
|--------|--|--------------------|--------------------|--------------------|----------|-----|-------|-------|
|        | Dorsal<br>or post.                         | Ventral<br>or ant. | Medial<br>or right | Lateral<br>or left | Circular | OTH | X     |       |
| V      | 5  | 0                  | 0                  | 0                  | 9        | 7   | 7     | 28    |
| C      | 76   | 68                 | 23                 | 25                 | 132      | 101 | 107   | 532   |
| A      | 147  | 107                | 46                 | 50                 | 306      | 179 | 201   | 1,036 |
| T      | 113  | 73                 | 24                 | 19                 | 164      | 97  | 149   | 639   |
| D      | 44   | 30                 | 10                 | 10                 | 108      | 41  | 48    | 291   |
| S      | 283  | 191                | 56                 | 46                 | 535      | 278 | 375   | 1,764 |
| Rs     | 158  | 129                | 34                 | 44                 | 245      | 111 | 137   | 858   |
| Ra     | 151  | 163                | 45                 | 59                 | 187      | 73  | 121   | 799   |
| Rb     | 220  | 204                | 106                | 99                 | 156      | 83  | 166   | 1,034 |
| P      | 12   | 12                 | 6                  | 4                  | 4        | 6   | 7     | 51    |
| Colon  | 668  | 469                | 159                | 150                | 1,254    | 703 | 887   | 4,290 |
| Rectum | 541  | 508                | 191                | 206                | 592      | 273 | 431   | 2,742 |
| Total  | 1,209                                      | 977                | 350                | 356                | 1,846    | 976 | 1,318 | 7,032 |

Dorsal mesenteric side

Ventral side opposite to the mesenterium

post. posterior side

ant. anterior side

Table 13-1

Tumor locaion, by circumferential division of the bowel wall

| Site   | Circumferential occupancy of the bowel wall |       |      |               |          |     | X   | Total |
|--------|---|-------|------|---------------|----------|-----|-----|-------|
|        | <1/3  | <1/2  | <2/3 | Semi-circular | Circular | OTH |     |       |
| V      | 3   | 2     | 2    | 1             | 10       | 3   | 7   | 28    |
| C      | 107   | 96    | 55   | 48            | 154      | 16  | 56  | 532   |
| A      | 230   | 143   | 114  | 116           | 320      | 18  | 95  | 1,036 |
| T      | 157   | 94    | 55   | 58            | 193      | 11  | 71  | 639   |
| D      | 57  | 36    | 28   | 27            | 115      | 4   | 24  | 291   |
| S      | 357   | 237   | 187  | 191           | 550      | 34  | 208 | 1,764 |
| Rs     | 126   | 142   | 111  | 110           | 261      | 14  | 94  | 858   |
| Ra     | 141   | 143   | 110  | 118           | 185      | 13  | 89  | 799   |
| Rb     | 257   | 203   | 146  | 138           | 155      | 9   | 126 | 1,034 |
| P      | 12  | 7     | 6    | 4             | 12       | 3   | 7   | 51    |
| Colon  | 911   | 608   | 441  | 441           | 1,342    | 86  | 461 | 4,290 |
| Rectum | 536   | 495   | 373  | 370           | 613      | 39  | 316 | 2,742 |
| Total  | 1,447                                       | 1,103 | 814  | 811           | 1,955    | 125 | 777 | 7,032 |

Table 13-2

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

| Site   | Tumor size (mm) |       |       |       |        |      | X   | Total |
|--------|-----------------|-------|-------|-------|--------|------|-----|-------|
|        | <=20            | 21-40 | 41-60 | 61-80 | 81-100 | >100 |     |       |
| V      | 4               | 9     | 5     | 5     | 1      | 0    | 4   | 28    |
| C      | 62              | 173   | 133   | 71    | 30     | 14   | 49  | 532   |
| A      | 154             | 292   | 243   | 138   | 46     | 25   | 138 | 1,036 |
| T      | 151             | 185   | 144   | 59    | 17     | 14   | 69  | 639   |
| D      | 48              | 91    | 65    | 31    | 10     | 7    | 39  | 291   |
| S      | 313             | 550   | 445   | 172   | 48     | 10   | 226 | 1,764 |
| Rs     | 104             | 232   | 267   | 113   | 28     | 12   | 102 | 858   |
| Ra     | 90              | 249   | 220   | 113   | 27     | 11   | 89  | 799   |
| Rb     | 172             | 314   | 264   | 117   | 45     | 9    | 113 | 1,034 |
| P      | 21              | 6     | 6     | 4     | 4      | 1    | 9   | 51    |
| Colon  | 732             | 1,300 | 1,035 | 476   | 152    | 70   | 525 | 4,290 |
| Rectum | 387             | 801   | 757   | 347   | 104    | 33   | 313 | 2,742 |
| Total  | 1,119           | 2,101 | 1,792 | 823   | 256    | 103  | 838 | 7,032 |

Table 13-3

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

| DI    | Tumor size (mm) |       |       |       |        |      | X   | Total |
|-------|-----------------|-------|-------|-------|--------|------|-----|-------|
|       | <=20            | 21-40 | 41-60 | 61-80 | 81-100 | >100 |     |       |
| m     | 110             | 93    | 37    | 13    | 5      | 0    | 44  | 302   |
| sm    | 390             | 215   | 42    | 16    | 2      | 3    | 99  | 767   |
| mp    | 250             | 468   | 128   | 16    | 5      | 1    | 95  | 963   |
| ss/a1 | 285             | 903   | 946   | 429   | 111    | 40   | 317 | 3,031 |
| se/a2 | 59              | 366   | 507   | 241   | 69     | 32   | 174 | 1,448 |
| si/ai | 18              | 42    | 124   | 102   | 61     | 25   | 70  | 442   |
| X     | 7               | 14    | 8     | 6     | 3      | 2    | 39  | 79    |
| Total | 1,119           | 2,101 | 1,792 | 823   | 256    | 103  | 838 | 7,032 |

Table 14-1

Metastasis, peritoneum

| Site   | Peritoneal metastasis |     |    |    |    | Total |
|--------|-----------------------|-----|----|----|----|-------|
|        | P0                    | P1  | P2 | P3 | PX |       |
| V      | 20                    | 0   | 2  | 4  | 2  | 28    |
| C      | 479                   | 20  | 11 | 15 | 7  | 532   |
| A      | 968                   | 26  | 14 | 24 | 4  | 1,036 |
| T      | 601                   | 10  | 9  | 17 | 2  | 639   |
| D      | 280                   | 6   | 3  | 1  | 1  | 291   |
| S      | 1,674                 | 40  | 21 | 19 | 10 | 1,764 |
| Rs     | 818                   | 16  | 4  | 9  | 11 | 858   |
| Ra     | 775                   | 15  | 3  | 2  | 4  | 799   |
| Rb     | 1,012                 | 10  | 0  | 1  | 11 | 1,034 |
| P      | 49                    | 1   | 0  | 1  | 0  | 51    |
| Colon  | 4,022                 | 102 | 60 | 80 | 26 | 4,290 |
| Rectum | 2,654                 | 42  | 7  | 13 | 26 | 2,742 |
| Total  | 6,676                 | 144 | 67 | 93 | 52 | 7,032 |

P0 No peritoneal metastasis

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

P2 A few metastases to distant peritoneum

P3 Numerous metastases to distant peritoneum

PX No information on peritoneal metastasis

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



Table 14-2  
Metastasis, liver

| Site   | Liver metastasis |     |     |     |    | Total |
|--------|------------------|-----|-----|-----|----|-------|
|        | H0               | H1  | H2  | H3  | HX |       |
| V      | 24               | 0   | 0   | 2   | 2  | 28    |
| C      | 458              | 29  | 15  | 23  | 7  | 532   |
| A      | 918              | 38  | 18  | 55  | 7  | 1,036 |
| T      | 566              | 21  | 15  | 35  | 2  | 639   |
| D      | 255              | 9   | 7   | 20  | 0  | 291   |
| S      | 1,508            | 74  | 52  | 115 | 15 | 1,764 |
| Rs     | 758              | 30  | 14  | 49  | 7  | 858   |
| Ra     | 695              | 35  | 26  | 41  | 2  | 799   |
| Rb     | 945              | 38  | 23  | 19  | 9  | 1,034 |
| P      | 48               | 2   | 0   | 1   | 0  | 51    |
| Colon  | 3,729            | 171 | 107 | 250 | 33 | 4,290 |
| Rectum | 2,446            | 105 | 63  | 110 | 18 | 2,742 |
| Total  | 6,175            | 276 | 170 | 360 | 51 | 7,032 |

H0 No liver metastasis

H1 Metastasis limited to one lobe

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

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

HX No information on liver metastasis

Table 14-3  
Metastasis, lung

| Site   | Pulmonary metastasis |     |     |     |     | Total |
|--------|----------------------|-----|-----|-----|-----|-------|
|        | LM0                  | LM1 | LM2 | LM3 | LMX |       |
| V      | 24                   | 0   | 0   | 2   | 2   | 28    |
| C      | 458                  | 29  | 15  | 23  | 7   | 532   |
| A      | 918                  | 38  | 18  | 55  | 7   | 1,036 |
| T      | 566                  | 21  | 15  | 35  | 2   | 639   |
| D      | 255                  | 9   | 7   | 20  | 0   | 291   |
| S      | 1,508                | 74  | 52  | 115 | 15  | 1,764 |
| Rs     | 758                  | 30  | 14  | 49  | 7   | 858   |
| Ra     | 695                  | 35  | 26  | 41  | 2   | 799   |
| Rb     | 945                  | 38  | 23  | 19  | 9   | 1,034 |
| P      | 48                   | 2   | 0   | 1   | 0   | 51    |
| Colon  | 3,729                | 171 | 107 | 250 | 33  | 4,290 |
| Rectum | 2,446                | 105 | 63  | 110 | 18  | 2,742 |
| Total  | 6,175                | 276 | 170 | 360 | 51  | 7,032 |

LM0 No pulmonary metastasis

LM1 Metastasis only to one lobe

LM2 Metastasis to multiple lobes but not meeting "M3"

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

LMX No information on pulmonary metastasis

Table 14-4

## Metastasis, distant organs

| Site   | Distant metastasis |      |       |         |      |         |     |     | Total |
|--------|--------------------|------|-------|---------|------|---------|-----|-----|-------|
|        | M(-)               | Bone | Brain | Adrenal | Skin | Virchow | OTH | X   |       |
| V      | 22                 | 0    | 0     | 0       | 0    | 0       | 2   | 4   | 28    |
| C      | 502                | 1    | 1     | 1       | 0    | 2       | 9   | 16  | 532   |
| A      | 955                | 4    | 0     | 1       | 0    | 3       | 25  | 48  | 1,036 |
| T      | 596                | 3    | 0     | 0       | 0    | 1       | 11  | 28  | 639   |
| D      | 270                | 1    | 1     | 0       | 0    | 0       | 5   | 14  | 291   |
| S      | 1,633              | 6    | 0     | 1       | 0    | 3       | 25  | 96  | 1,764 |
| Rs     | 777                | 3    | 2     | 0       | 0    | 0       | 20  | 56  | 858   |
| Ra     | 753                | 3    | 2     | 1       | 0    | 1       | 9   | 30  | 799   |
| Rb     | 932                | 5    | 0     | 0       | 0    | 1       | 14  | 82  | 1,034 |
| P      | 32                 | 0    | 0     | 0       | 0    | 0       | 0   | 19  | 51    |
| Colon  | 3,978              | 15   | 2     | 3       | 0    | 9       | 77  | 206 | 4,290 |
| Rectum | 2,494              | 11   | 4     | 1       | 0    | 2       | 43  | 187 | 2,742 |
| Total  | 6,472              | 26   | 6     | 4       | 0    | 11      | 120 | 393 | 7,032 |

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

Table 15

## Histological classification, by site

| Site   | Histological classification |       |     |     |     |     | Total |
|--------|-----------------------------|-------|-----|-----|-----|-----|-------|
|        | w/d                         | m/d   | p/d | muc | sig | NOS |       |
| V      | 10                          | 4     | 2   | 10  | 0   | 2   | 28    |
| C      | 256                         | 207   | 32  | 33  | 3   | 1   | 532   |
| A      | 396                         | 515   | 67  | 52  | 4   | 2   | 1,036 |
| T      | 295                         | 283   | 35  | 25  | 0   | 1   | 639   |
| D      | 132                         | 144   | 6   | 6   | 0   | 3   | 291   |
| S      | 776                         | 903   | 41  | 32  | 2   | 10  | 1,764 |
| Rs     | 352                         | 466   | 22  | 16  | 1   | 1   | 858   |
| Ra     | 330                         | 421   | 25  | 19  | 3   | 1   | 799   |
| Rb     | 426                         | 544   | 27  | 32  | 0   | 5   | 1,034 |
| P      | 16                          | 18    | 5   | 10  | 0   | 2   | 51    |
| Colon  | 1,865                       | 2,056 | 183 | 158 | 9   | 19  | 4,290 |
| Rectum | 1,124                       | 1,449 | 79  | 77  | 4   | 9   | 2,742 |
| Total  | 2,989                       | 3,505 | 262 | 235 | 13  | 28  | 7,032 |

w/d well-differentiated adenocarcinoma

m/d moderately differentiated adenocarcinoma

p/d poorly differentiated adenocarcinoma

muc mucinous carcinoma

sig signet ring cell carcinoma

NOS adenocarcinoma not otherwise specified

Table 16-1

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

| Site   | DI  |     |     |       |       |       | X   | Total |
|--------|-----|-----|-----|-------|-------|-------|-----|-------|
|        | M   | SM  | MP  | SS/A1 | SE/A2 | Si/Ai |     |       |
| V      | 2   | 2   | 2   | 5     | 5     | 8     | 4   | 28    |
| C      | 30  | 56  | 53  | 151   | 145   | 76    | 21  | 532   |
| A      | 41  | 87  | 109 | 368   | 302   | 97    | 32  | 1,036 |
| T      | 42  | 84  | 73  | 202   | 170   | 55    | 13  | 639   |
| D      | 12  | 23  | 32  | 115   | 69    | 34    | 6   | 291   |
| S      | 33  | 199 | 200 | 614   | 442   | 202   | 74  | 1,764 |
| Rs     | 9   | 70  | 111 | 293   | 251   | 84    | 40  | 858   |
| Ra     | 16  | 62  | 118 | 313   | 203   | 57    | 30  | 799   |
| Rb     | 46  | 98  | 200 | 340   | 211   | 83    | 56  | 1,034 |
| P      | 4   | 7   | 3   | 10    | 12    | 9     | 6   | 51    |
| Colon  | 160 | 451 | 469 | 1,455 | 1,133 | 472   | 150 | 4,290 |
| Rectum | 75  | 237 | 432 | 956   | 677   | 233   | 132 | 2,742 |
| Total  | 235 | 688 | 901 | 2,411 | 1,810 | 705   | 282 | 7,032 |

Intestine with serosa, macroscopic

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

Intestine without serosa, macroscopic

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

Table 16-2

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

| Site   | DI  |     |     |       |       |       | X  | Total |
|--------|-----|-----|-----|-------|-------|-------|----|-------|
|        | m   | sm  | mp  | ss/a1 | se/a2 | si/ai |    |       |
| V      | 4   | 1   | 1   | 8     | 3     | 8     | 3  | 28    |
| C      | 33  | 63  | 73  | 190   | 119   | 50    | 4  | 532   |
| A      | 53  | 95  | 93  | 480   | 234   | 70    | 11 | 1,036 |
| T      | 49  | 86  | 66  | 277   | 128   | 28    | 5  | 639   |
| D      | 14  | 25  | 35  | 144   | 51    | 19    | 3  | 291   |
| S      | 57  | 205 | 228 | 780   | 356   | 122   | 16 | 1,764 |
| Rs     | 20  | 78  | 102 | 415   | 185   | 53    | 5  | 858   |
| Ra     | 16  | 76  | 115 | 388   | 153   | 37    | 14 | 799   |
| Rb     | 53  | 132 | 237 | 339   | 210   | 49    | 14 | 1,034 |
| P      | 3   | 6   | 13  | 10    | 9     | 6     | 4  | 51    |
| Colon  | 210 | 475 | 496 | 1,879 | 891   | 297   | 42 | 4,290 |
| Rectum | 92  | 292 | 467 | 1,152 | 557   | 145   | 37 | 2,742 |
| Total  | 302 | 767 | 963 | 3,031 | 1,448 | 442   | 79 | 7,032 |

## Intestine with serosa, histological

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

## Intestine without serosa, histological

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

Table 17

## Number of organs or structures with cancer invasion, histological

| Site   | Number of organs with cancer invasion |    |    |   |    | Total |
|--------|---------------------------------------|----|----|---|----|-------|
|        | 1                                     | 2  | 3  | 4 | X  |       |
| V      | 4                                     | 2  | 0  | 0 | 2  | 8     |
| C      | 36                                    | 8  | 0  | 0 | 6  | 50    |
| A      | 52                                    | 7  | 2  | 1 | 8  | 70    |
| T      | 20                                    | 4  | 1  | 0 | 3  | 28    |
| D      | 16                                    | 1  | 1  | 0 | 1  | 19    |
| S      | 90                                    | 16 | 3  | 0 | 13 | 122   |
| Rs     | 42                                    | 7  | 0  | 0 | 4  | 53    |
| Ra     | 22                                    | 7  | 1  | 1 | 6  | 37    |
| Rb     | 32                                    | 7  | 1  | 0 | 9  | 49    |
| P      | 4                                     | 0  | 1  | 0 | 1  | 6     |
| Colon  | 218                                   | 38 | 7  | 1 | 33 | 297   |
| Rectum | 100                                   | 21 | 3  | 1 | 20 | 145   |
| Total  | 318                                   | 59 | 10 | 2 | 53 | 442   |

Table 18-1

## Lymph node metastasis, macroscopic, by site

| Site   | Lymph node metastasis |       |       |     |     |     | Total |
|--------|-----------------------|-------|-------|-----|-----|-----|-------|
|        | N0                    | N1    | N2    | N3  | N4  | NX  |       |
| V      | 8                     | 6     | 4     | 1   | 1   | 8   | 28    |
| C      | 235                   | 135   | 113   | 29  | 10  | 10  | 532   |
| A      | 482                   | 293   | 178   | 47  | 17  | 19  | 1,036 |
| T      | 349                   | 155   | 82    | 22  | 21  | 10  | 639   |
| D      | 147                   | 94    | 40    | 3   | 2   | 5   | 291   |
| S      | 859                   | 508   | 281   | 41  | 32  | 43  | 1,764 |
| Rs     | 405                   | 265   | 131   | 19  | 18  | 20  | 858   |
| Ra     | 368                   | 256   | 120   | 26  | 14  | 15  | 799   |
| Rb     | 577                   | 244   | 120   | 55  | 13  | 25  | 1,034 |
| P      | 26                    | 10    | 7     | 5   | 2   | 1   | 51    |
| Colon  | 2,080                 | 1,191 | 698   | 143 | 83  | 95  | 4,290 |
| Rectum | 1,376                 | 775   | 378   | 105 | 47  | 61  | 2,742 |
| Total  | 3,456                 | 1,966 | 1,076 | 248 | 130 | 156 | 7,032 |

N0 No lymph node metastasis  
 N1 Metastasis to Group 1  
 N2 Metastasis to Group 2  
 N3 Metastasis to Group 3  
 N4 Metastasis to Group 4  
 NX Unknown lymph node metastasis

Table 18-2

## Lymph node metastasis, histological, by site

| Site   | Lymph node metastasis |       |     |     |    |     | Total |
|--------|-----------------------|-------|-----|-----|----|-----|-------|
|        | n0                    | n1    | n2  | n3  | n4 | nX  |       |
| V      | 14                    | 6     | 1   | 2   | 0  | 5   | 28    |
| C      | 292                   | 127   | 75  | 20  | 6  | 12  | 532   |
| A      | 589                   | 263   | 112 | 38  | 12 | 22  | 1,036 |
| T      | 407                   | 133   | 51  | 15  | 12 | 21  | 639   |
| D      | 171                   | 85    | 17  | 3   | 2  | 13  | 291   |
| S      | 997                   | 460   | 200 | 32  | 16 | 59  | 1,764 |
| Rs     | 466                   | 234   | 106 | 19  | 9  | 24  | 858   |
| Ra     | 396                   | 246   | 102 | 22  | 4  | 29  | 799   |
| Rb     | 593                   | 213   | 134 | 46  | 12 | 36  | 1,034 |
| P      | 27                    | 8     | 5   | 5   | 1  | 5   | 51    |
| Colon  | 2,470                 | 1,074 | 456 | 110 | 48 | 132 | 4,290 |
| Rectum | 1,482                 | 701   | 347 | 92  | 26 | 94  | 2,742 |
| Total  | 3,952                 | 1,775 | 803 | 202 | 74 | 226 | 7,032 |

|    |                               |
|----|-------------------------------|
| n0 | No lymph node metastasis      |
| n1 | Metastasis to Group 1         |
| n2 | Metastasis to Group 2         |
| n3 | Metastasis to Group 3         |
| n4 | Metastasis to Group 4         |
| nX | Unknown lymph node metastasis |

Table 18-3

## Lymph node metastasis, histological, by DI

| DI    | Lymph node metastasis |       |     |     |    |     | Total |
|-------|-----------------------|-------|-----|-----|----|-----|-------|
|       | n0                    | n1    | n2  | n3  | n4 | nX  |       |
| m     | 279                   | 1     | 0   | 0   | 0  | 22  | 302   |
| sm    | 665                   | 75    | 9   | 0   | 1  | 17  | 767   |
| mp    | 715                   | 185   | 36  | 9   | 1  | 17  | 963   |
| ss/a1 | 1,621                 | 881   | 367 | 86  | 21 | 55  | 3,031 |
| se/a2 | 483                   | 499   | 310 | 71  | 29 | 56  | 1,448 |
| si/ai | 166                   | 122   | 78  | 35  | 21 | 20  | 442   |
| X     | 23                    | 12    | 3   | 1   | 1  | 39  | 79    |
| Total | 3,952                 | 1,775 | 803 | 202 | 74 | 226 | 7,032 |



Table 18-4

Lymph node metastasis, histological, by DI, colon

| DI    | Lymph node metastasis |       |     |     |    |     | Total |
|-------|-----------------------|-------|-----|-----|----|-----|-------|
|       | n0                    | n1    | n2  | n3  | n4 | nX  |       |
| m     | 199                   | 1     | 0   | 0   | 0  | 10  | 210   |
| sm    | 419                   | 45    | 4   | 0   | 1  | 6   | 475   |
| mp    | 381                   | 88    | 16  | 1   | 1  | 9   | 496   |
| ss/a1 | 1,057                 | 529   | 205 | 43  | 12 | 33  | 1,879 |
| se/a2 | 296                   | 317   | 176 | 45  | 18 | 39  | 891   |
| si/ai | 106                   | 85    | 54  | 21  | 15 | 16  | 297   |
| X     | 12                    | 9     | 1   | 0   | 1  | 19  | 42    |
| Total | 2,470                 | 1,074 | 456 | 110 | 48 | 132 | 4,290 |

Table 18-5

Lymph node metastasis, histological, by DI, rectum

| DI    | Lymph node metastasis |     |     |    |    |    | Total |
|-------|-----------------------|-----|-----|----|----|----|-------|
|       | n0                    | n1  | n2  | n3 | n4 | nX |       |
| m     | 80                    | 0   | 0   | 0  | 0  | 12 | 92    |
| sm    | 246                   | 30  | 5   | 0  | 0  | 11 | 292   |
| mp    | 334                   | 97  | 20  | 8  | 0  | 8  | 467   |
| ss/a1 | 564                   | 352 | 162 | 43 | 9  | 22 | 1,152 |
| se/a2 | 187                   | 182 | 134 | 26 | 11 | 17 | 557   |
| si/ai | 60                    | 37  | 24  | 14 | 6  | 4  | 145   |
| X     | 11                    | 3   | 2   | 1  | 0  | 20 | 37    |
| Total | 1,482                 | 701 | 347 | 92 | 26 | 94 | 2,742 |

Table 19-1

Lymphatic invasion, by site

| Site   | Lymphatic invasion |       |       |     |       |     | Total |
|--------|--------------------|-------|-------|-----|-------|-----|-------|
|        | ly0                | ly1   | ly2   | ly3 | ly(+) | X   |       |
| V      | 7                  | 9     | 4     | 3   | 0     | 5   | 28    |
| C      | 213                | 200   | 70    | 38  | 1     | 10  | 532   |
| A      | 360                | 410   | 178   | 71  | 0     | 17  | 1,036 |
| T      | 262                | 225   | 112   | 23  | 0     | 17  | 639   |
| D      | 119                | 103   | 56    | 6   | 0     | 7   | 291   |
| S      | 687                | 675   | 283   | 84  | 2     | 33  | 1,764 |
| Rs     | 303                | 342   | 153   | 46  | 0     | 14  | 858   |
| Ra     | 291                | 297   | 146   | 41  | 0     | 24  | 799   |
| Rb     | 430                | 393   | 147   | 47  | 0     | 17  | 1,034 |
| P      | 22                 | 15    | 7     | 5   | 0     | 2   | 51    |
| Colon  | 1,648              | 1,622 | 703   | 225 | 3     | 89  | 4,290 |
| Rectum | 1,046              | 1,047 | 453   | 139 | 0     | 57  | 2,742 |
| Total  | 2,694              | 2,669 | 1,156 | 364 | 3     | 146 | 7,032 |

Table 19-2

## Lymphatic invasion, by DI, colon

| DI    | Lymphatic invasion |       |     |     |       |    | Total |
|-------|--------------------|-------|-----|-----|-------|----|-------|
|       | ly0                | ly1   | ly2 | ly3 | ly(+) | X  |       |
| m     | 201                | 1     | 0   | 0   | 0     | 8  | 210   |
| sm    | 330                | 110   | 26  | 1   | 1     | 7  | 475   |
| mp    | 239                | 207   | 41  | 5   | 1     | 3  | 496   |
| ss/a1 | 609                | 861   | 304 | 81  | 0     | 24 | 1,879 |
| se/a2 | 192                | 330   | 250 | 102 | 1     | 16 | 891   |
| si/ai | 66                 | 108   | 78  | 34  | 0     | 11 | 297   |
| X     | 11                 | 5     | 4   | 2   | 0     | 20 | 42    |
| Total | 1,648              | 1,622 | 703 | 225 | 3     | 89 | 4,290 |

Table 19-3

## Lymphatic invasion, by DI, rectum

| DI    | Lymphatic invasion |       |     |     |       |    | Total |
|-------|--------------------|-------|-----|-----|-------|----|-------|
|       | ly0                | ly1   | ly2 | ly3 | ly(+) | X  |       |
| m     | 89                 | 1     | 0   | 0   | 0     | 2  | 92    |
| sm    | 193                | 75    | 15  | 1   | 0     | 8  | 292   |
| mp    | 218                | 187   | 49  | 8   | 0     | 5  | 467   |
| ss/a1 | 371                | 494   | 223 | 50  | 0     | 14 | 1,152 |
| se/a2 | 135                | 231   | 123 | 61  | 0     | 7  | 557   |
| si/ai | 32                 | 55    | 39  | 18  | 0     | 1  | 145   |
| X     | 8                  | 4     | 4   | 1   | 0     | 20 | 37    |
| Total | 1,046              | 1,047 | 453 | 139 | 0     | 57 | 2,742 |

ly0 No lymphatic invasion  
 ly1 Minimal lymphatic invasion  
 ly2 Moderate lymphatic invasion  
 ly3 Severe lymphatic invasion  
 ly+ Positive lymphatic invasion

Table 20-1

## Venous invasion, by site

| Site   | venous invasion |       |       |     |      |     | Total |
|--------|-----------------|-------|-------|-----|------|-----|-------|
|        | v0              | v1    | v2    | v3  | v(+) | X   |       |
| V      | 13              | 9     | 1     | 0   | 0    | 5   | 28    |
| C      | 210             | 200   | 83    | 29  | 1    | 9   | 532   |
| A      | 349             | 418   | 190   | 63  | 1    | 15  | 1,036 |
| T      | 249             | 226   | 108   | 39  | 1    | 16  | 639   |
| D      | 124             | 106   | 39    | 14  | 1    | 7   | 291   |
| S      | 659             | 638   | 306   | 126 | 3    | 32  | 1,764 |
| Rs     | 302             | 297   | 159   | 79  | 0    | 21  | 858   |
| Ra     | 254             | 289   | 171   | 61  | 0    | 24  | 799   |
| Rb     | 326             | 357   | 244   | 87  | 2    | 18  | 1,034 |
| P      | 23              | 15    | 7     | 4   | 0    | 2   | 51    |
| Colon  | 1,604           | 1,597 | 727   | 271 | 7    | 84  | 4,290 |
| Rectum | 905             | 958   | 581   | 231 | 2    | 65  | 2,742 |
| Total  | 2,509           | 2,555 | 1,308 | 502 | 9    | 149 | 7,032 |

Table 20-2

## Venous invasion, by DI, colon

| DI    | Venous invasion |       |     |     |      |    | Total |
|-------|-----------------|-------|-----|-----|------|----|-------|
|       | v0              | v1    | v2  | v3  | v(+) | X  |       |
| m     | 202             | 0     | 0   | 0   | 0    | 8  | 210   |
| sm    | 355             | 90    | 18  | 2   | 2    | 8  | 475   |
| mp    | 256             | 203   | 22  | 11  | 2    | 2  | 496   |
| ss/a1 | 593             | 793   | 346 | 122 | 2    | 23 | 1,879 |
| se/a2 | 141             | 395   | 248 | 91  | 1    | 15 | 891   |
| si/ai | 49              | 105   | 92  | 43  | 0    | 8  | 297   |
| X     | 8               | 11    | 1   | 2   | 0    | 20 | 42    |
| Total | 1,604           | 1,597 | 727 | 271 | 7    | 84 | 4,290 |

Table 20-3

## Venous invasion, by DI, rectum

| DI    | Venous invasion |     |     |     |      |    | Total |
|-------|-----------------|-----|-----|-----|------|----|-------|
|       | v0              | v1  | v2  | v3  | v(+) | X  |       |
| m     | 89              | 1   | 0   | 0   | 0    | 2  | 92    |
| sm    | 205             | 56  | 20  | 1   | 0    | 10 | 292   |
| mp    | 201             | 177 | 70  | 11  | 1    | 7  | 467   |
| ss/a1 | 292             | 471 | 260 | 113 | 1    | 15 | 1,152 |
| se/a2 | 85              | 204 | 174 | 85  | 0    | 9  | 557   |
| si/ai | 26              | 47  | 49  | 21  | 0    | 2  | 145   |
| X     | 7               | 2   | 8   | 0   | 0    | 20 | 37    |
| Total | 905             | 958 | 581 | 231 | 2    | 65 | 2,742 |

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

Table 21-1

## Tumor invasion of surgical margin, macroscopic, by site

| Site   | Proximal cut end (OW) |       |     | Total |
|--------|-----------------------|-------|-----|-------|
|        | OW(-)                 | OW(+) | X   |       |
| V      | 24                    | 0     | 4   | 28    |
| C      | 505                   | 0     | 27  | 532   |
| A      | 983                   | 0     | 53  | 1,036 |
| T      | 606                   | 0     | 33  | 639   |
| D      | 275                   | 0     | 16  | 291   |
| S      | 1,682                 | 0     | 82  | 1,764 |
| Rs     | 810                   | 2     | 46  | 858   |
| Ra     | 751                   | 0     | 48  | 799   |
| Rb     | 976                   | 1     | 57  | 1,034 |
| P      | 48                    | 0     | 3   | 51    |
| Colon  | 4,075                 | 0     | 215 | 4,290 |
| Rectum | 2,585                 | 3     | 154 | 2,742 |
| Total  | 6,660                 | 3     | 369 | 7,032 |

Table 21-2

## Tumor invasion of surgical margin, macroscopic, by site

| Site   | Distal cut end (AW) |       |     | Total |
|--------|---------------------|-------|-----|-------|
|        | AW(-)               | AW(+) | X   |       |
| V      | 22                  | 1     | 5   | 28    |
| C      | 505                 | 0     | 27  | 532   |
| A      | 982                 | 0     | 54  | 1,036 |
| T      | 605                 | 1     | 33  | 639   |
| D      | 275                 | 0     | 16  | 291   |
| S      | 1,679               | 1     | 84  | 1,764 |
| Rs     | 809                 | 2     | 47  | 858   |
| Ra     | 748                 | 2     | 49  | 799   |
| Rb     | 971                 | 1     | 62  | 1,034 |
| P      | 47                  | 0     | 4   | 51    |
| Colon  | 4,068               | 3     | 219 | 4,290 |
| Rectum | 2,575               | 5     | 162 | 2,742 |
| Total  | 6,643               | 8     | 381 | 7,032 |

Table 21-3

## Tumor invasion of surgical margin, macroscopic, by site

| Site   | Surgical cut end (EW) |       |     | Total |
|--------|-----------------------|-------|-----|-------|
|        | EW(-)                 | EW(+) | X   |       |
| V      | 19                    | 4     | 5   | 28    |
| C      | 449                   | 16    | 67  | 532   |
| A      | 880                   | 26    | 130 | 1,036 |
| T      | 548                   | 11    | 80  | 639   |
| D      | 249                   | 4     | 38  | 291   |
| S      | 1,509                 | 26    | 229 | 1,764 |
| Rs     | 719                   | 23    | 116 | 858   |
| Ra     | 699                   | 15    | 85  | 799   |
| Rb     | 906                   | 36    | 92  | 1,034 |
| P      | 46                    | 0     | 5   | 51    |
| Colon  | 3,654                 | 87    | 549 | 4,290 |
| Rectum | 2,370                 | 74    | 298 | 2,742 |
| Total  | 6,024                 | 161   | 847 | 7,032 |

OW(-) No tumor invasion on proximal cut end

OW(+) Tumor invasion on proximal cut end

AW(-) No tumor invasion on distal cut end

AW(+) Tumor invasion on distal cut end

EW(-) No tumor invasion on surgical cut end

EW(+) Tumor invasion on surgical cut end

Table 21-4

Distance between tumor and proximal cut end, by site

| Site   | Distance between tumor and proximal cut end (mm) |        |       |       | Total |
|--------|--|--------|-------|-------|-------|
|        | <=50   | 51-100 | >100  | X     |       |
| V      | 7  | 5      | 3     | 13    | 28    |
| C      | 128  | 151    | 90    | 163   | 532   |
| A      | 183  | 280    | 267   | 306   | 1,036 |
| T      | 190  | 147    | 121   | 181   | 639   |
| D      | 77   | 86     | 36    | 92    | 291   |
| S      | 461  | 583    | 225   | 495   | 1,764 |
| Rs     | 172  | 250    | 228   | 208   | 858   |
| Ra     | 130  | 168    | 281   | 220   | 799   |
| Rb     | 180  | 76     | 458   | 320   | 1,034 |
| P      | 21   | 2      | 19    | 9     | 51    |
| Colon  | 1,046  | 1,252  | 742   | 1,250 | 4,290 |
| Rectum | 503  | 496    | 986   | 757   | 2,742 |
| Total  | 1,549  | 1,748  | 1,728 | 2,007 | 7,032 |

Table 21-5

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

| Site  | Distance between tumor and distal cut end (mm) |        |      |       | Total |
|-------|--|--------|------|-------|-------|
|       | <=50   | 51-100 | >100 | X     |       |
| V     | 10   | 4      | 1    | 13    | 28    |
| C     | 84   | 149    | 138  | 161   | 532   |
| A     | 188  | 301    | 244  | 303   | 1,036 |
| T     | 208  | 183    | 68   | 180   | 639   |
| D     | 79   | 77     | 44   | 91    | 291   |
| S     | 595  | 511    | 169  | 489   | 1,764 |
| Total | 1,164  | 1,225  | 664  | 1,237 | 4,290 |

Table 21-6

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

| Site  | Distance between tumor and distal cut end (mm) |       |       |       |       |       |     |     | Total |
|-------|--|-------|-------|-------|-------|-------|-----|-----|-------|
|       | <=10   | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | >60 | X   |       |
| Rs    | 99   | 75    | 112   | 116   | 98    | 66    | 92  | 200 | 858   |
| Ra    | 132  | 123   | 160   | 93    | 42    | 14    | 31  | 204 | 799   |
| Rb    | 275  | 202   | 107   | 58    | 39    | 13    | 44  | 296 | 1,034 |
| P     | 27   | 8     | 4     | 3     | 1     | 0     | 0   | 8   | 51    |
| Total | 533  | 408   | 383   | 270   | 180   | 93    | 167 | 708 | 2,742 |

Table 21-7

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

| proximal<br>length (mm) | distal length (mm) |        |      |       | Total |
|-------------------------|--------------------|--------|------|-------|-------|
|                         | <=50               | 51-100 | >100 | X     |       |
| <=50                    | 724                | 215    | 105  | 2     | 1,046 |
| 51-100                  | 281                | 684    | 282  | 5     | 1,252 |
| >100                    | 153                | 314    | 274  | 1     | 742   |
| X                       | 6                  | 12     | 3    | 1,229 | 1,250 |
| Total                   | 1,164              | 1,225  | 664  | 1,237 | 4,290 |

Table 21-8

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

| proximal<br>length (mm) | distal length (mm) |       |       |       |       |       |     |     | Total |
|-------------------------|--------------------|-------|-------|-------|-------|-------|-----|-----|-------|
|                         | <=10               | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | >60 | X   |       |
| <=50                    | 355                | 37    | 21    | 24    | 14    | 5     | 32  | 15  | 503   |
| 51-100                  | 29                 | 94    | 116   | 88    | 71    | 32    | 59  | 7   | 496   |
| >100                    | 119                | 260   | 229   | 150   | 91    | 56    | 72  | 9   | 986   |
| X                       | 30                 | 17    | 17    | 8     | 4     | 0     | 4   | 677 | 757   |
| Total                   | 533                | 408   | 383   | 270   | 180   | 93    | 167 | 708 | 2,742 |

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

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

Table 21-9

Tumor invasion of surgical margin, histological, by site

| Site   | Proximal cut end (ow) |       |     | Total |
|--------|-----------------------|-------|-----|-------|
|        | ow(-)                 | ow(+) | X   |       |
| V      | 25                    | 0     | 3   | 28    |
| C      | 507                   | 0     | 25  | 532   |
| A      | 995                   | 0     | 41  | 1,036 |
| T      | 619                   | 0     | 20  | 639   |
| D      | 283                   | 0     | 8   | 291   |
| S      | 1,708                 | 0     | 56  | 1,764 |
| Rs     | 827                   | 1     | 30  | 858   |
| Ra     | 764                   | 0     | 35  | 799   |
| Rb     | 984                   | 4     | 46  | 1,034 |
| P      | 49                    | 0     | 2   | 51    |
| Colon  | 4,137                 | 0     | 153 | 4,290 |
| Rectum | 2,624                 | 5     | 113 | 2,742 |
| Total  | 6,761                 | 5     | 266 | 7,032 |

Table 21-10

Tumor invasion of surgical margin, histological, by site

| Site   | Distal cut end (aw) |       |     | Total |
|--------|---------------------|-------|-----|-------|
|        | aw(-)               | aw(+) | X   |       |
| V      | 24                  | 1     | 3   | 28    |
| C      | 507                 | 0     | 25  | 532   |
| A      | 994                 | 1     | 41  | 1,036 |
| T      | 617                 | 1     | 21  | 639   |
| D      | 282                 | 0     | 9   | 291   |
| S      | 1,705               | 3     | 56  | 1,764 |
| Rs     | 826                 | 2     | 30  | 858   |
| Ra     | 761                 | 1     | 37  | 799   |
| Rb     | 983                 | 5     | 46  | 1,034 |
| P      | 48                  | 0     | 3   | 51    |
| Colon  | 4,129               | 6     | 155 | 4,290 |
| Rectum | 2,618               | 8     | 116 | 2,742 |
| Total  | 6,747               | 14    | 271 | 7,032 |



Table 21-11

## Tumor invasion of surgical margin, histological, by site

| Site   | Surgical cut end (ew) |       |       | Total |
|--------|-----------------------|-------|-------|-------|
|        | ew(-)                 | ew(+) | X     |       |
| V      | 21                    | 2     | 5     | 28    |
| C      | 419                   | 23    | 90    | 532   |
| A      | 838                   | 37    | 161   | 1,036 |
| T      | 523                   | 13    | 103   | 639   |
| D      | 248                   | 6     | 37    | 291   |
| S      | 1,459                 | 31    | 274   | 1,764 |
| Rs     | 697                   | 32    | 129   | 858   |
| Ra     | 678                   | 16    | 105   | 799   |
| Rb     | 873                   | 50    | 111   | 1,034 |
| P      | 45                    | 1     | 5     | 51    |
| Colon  | 3,508                 | 112   | 670   | 4,290 |
| Rectum | 2,293                 | 99    | 350   | 2,742 |
| Total  | 5,801                 | 211   | 1,020 | 7,032 |

ow(-) No tumor invasion on proximal cut end

ow(+) Tumor invasion on proximal cut end

aw(-) No tumor invasion on distal cut end

aw(+) Tumor invasion on distal cut end

ew(-) No tumor invasion on surgical cut end

ew(+) Tumor invasion on surgical cut end

Table 21-12

## Tumor invasion of surgical margin, histological

| Proximal cut end | Distal cut end |       |     | Total |
|------------------|----------------|-------|-----|-------|
|                  | aw(-)          | aw(+) | X   |       |
| ow(-)            | 6,740          | 13    | 8   | 6,761 |
| ow(+)            | 4              | 1     | 0   | 5     |
| X                | 3              | 0     | 263 | 266   |
| Total            | 6,747          | 14    | 271 | 7,032 |

Table 21-13

## Tumor invasion of surgical margin, histological

| Proximal<br>cut end | Surgical cut end |       |       | Total |
|---------------------|------------------|-------|-------|-------|
|                     | ew(-)            | ew(+) | X     |       |
| ow(-)               | 5,793            | 210   | 758   | 6,761 |
| ow(+)               | 3                | 1     | 1     | 5     |
| X                   | 5                | 0     | 261   | 266   |
| Total               | 5,801            | 211   | 1,020 | 7,032 |

Table 21-14

## Tumor invasion of surgical margin, histological

| Distal<br>cut end | Surgical cut end |       |       | Total |
|-------------------|------------------|-------|-------|-------|
|                   | ew(-)            | ew(+) | X     |       |
| aw(-)             | 5,784            | 207   | 756   | 6,747 |
| aw(+)             | 9                | 4     | 1     | 14    |
| X                 | 8                | 0     | 263   | 271   |
| Total             | 5,801            | 211   | 1,020 | 7,032 |

Table 22-1

## Histological examination of peritoneal metastasis, by site

| Site   | Histological or cytological examination |                       |                      | X     | Total |
|--------|---|-----------------------|----------------------|-------|-------|
|        | Not<br>examined                         | Positive<br>histology | Positive<br>cytology |       |       |
| V      | 18                                      | 2                     | 3                    | 5     | 28    |
| C      | 353                                     | 26                    | 24                   | 129   | 532   |
| A      | 662                                     | 45                    | 61                   | 268   | 1,036 |
| T      | 402                                     | 23                    | 37                   | 177   | 639   |
| D      | 185                                     | 6                     | 18                   | 82    | 291   |
| S      | 1,094                                   | 64                    | 98                   | 508   | 1,764 |
| Rs     | 525                                     | 25                    | 53                   | 255   | 858   |
| Ra     | 504                                     | 24                    | 41                   | 230   | 799   |
| Rb     | 657                                     | 29                    | 30                   | 318   | 1,034 |
| P      | 31                                      | 8                     | 1                    | 11    | 51    |
| Colon  | 2,714                                   | 166                   | 241                  | 1,169 | 4,290 |
| Rectum | 1,717                                   | 86                    | 125                  | 814   | 2,742 |
| Total  | 4,431                                   | 252                   | 366                  | 1,983 | 7,032 |

Table 22-2

## Histological examination of peritoneal metastasis

| Peritoneal metastasis | Histological or cytological examination |                    |                   | X     | Total |
|-----------------------|---|--------------------|-------------------|-------|-------|
|                       | Not examined                            | Positive histology | Positive cytology |       |       |
| P0                    | 4,322                                   | 138                | 326               | 1,890 | 6,676 |
| P1                    | 36                                      | 56                 | 12                | 40    | 144   |
| P2                    | 20                                      | 27                 | 10                | 10    | 67    |
| P3                    | 27                                      | 29                 | 15                | 22    | 93    |
| PX                    | 26                                      | 2                  | 3                 | 21    | 52    |
| Total                 | 4,431                                   | 252                | 366               | 1,983 | 7,032 |

Table 23

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

| Site   | Additional and/or adjuvant therapy |     |       |      |              |       |       |   | OTH | X     | Total |
|--------|------------------------------------|-----|-------|------|--------------|-------|-------|---|-----|-------|-------|
|        | Radiation                          |     |       |      | Chemotherapy |       |       |   |     |       |       |
|        | None                               | pre | intra | post | pre          | intra | post  |   |     |       |       |
| V      | 12                                 | 0   | 0     | 0    | 0            | 1     | 11    | 0 | 2   | 26    |       |
| C      | 305                                | 0   | 0     | 0    | 1            | 1     | 149   | 0 | 9   | 465   |       |
| A      | 584                                | 1   | 0     | 0    | 3            | 0     | 304   | 0 | 22  | 914   |       |
| T      | 394                                | 0   | 0     | 1    | 2            | 1     | 159   | 0 | 6   | 563   |       |
| D      | 153                                | 0   | 0     | 0    | 3            | 0     | 90    | 3 | 4   | 253   |       |
| S      | 915                                | 1   | 0     | 2    | 15           | 1     | 572   | 2 | 23  | 1,531 |       |
| Rs     | 403                                | 4   | 0     | 1    | 8            | 1     | 336   | 1 | 9   | 763   |       |
| Ra     | 370                                | 16  | 0     | 3    | 11           | 0     | 296   | 0 | 9   | 705   |       |
| Rb     | 518                                | 62  | 0     | 14   | 27           | 0     | 296   | 0 | 7   | 924   |       |
| P      | 38                                 | 1   | 0     | 1    | 2            | 0     | 6     | 0 | 0   | 48    |       |
| Colon  | 2,363                              | 2   | 0     | 3    | 24           | 4     | 1,285 | 5 | 66  | 3,752 |       |
| Rectum | 1,329                              | 83  | 0     | 19   | 48           | 1     | 934   | 1 | 25  | 2,440 |       |
| Total  | 3,692                              | 85  | 0     | 22   | 72           | 5     | 2,219 | 6 | 91  | 6,192 |       |

pre preoperative therapy  
 intra intraoperative therapy  
 post postoperative therapy

Table 24-1

Operative procedures, patients without tumor resection, by site

| Site   | Exploratory | Enterostomy |             |            |            | Bypass | OTH | Total |
|--------|-------------|-------------|-------------|------------|------------|--------|-----|-------|
|        |             | Ileum       | Right colon | Transverse | Left colon |        |     |       |
| V      | 1           | 0           | 0           | 0          | 0          | 0      | 0   | 1     |
| C      | 4           | 1           | 0           | 0          | 0          | 0      | 0   | 5     |
| A      | 5           | 2           | 1           | 0          | 0          | 2      | 0   | 10    |
| T      | 6           | 2           | 0           | 0          | 0          | 1      | 1   | 10    |
| D      | 2           | 0           | 0           | 0          | 0          | 1      | 0   | 3     |
| S      | 10          | 2           | 0           | 3          | 4          | 0      | 1   | 20    |
| Rs     | 5           | 1           | 0           | 1          | 1          | 0      | 0   | 8     |
| Ra     | 4           | 2           | 0           | 4          | 4          | 0      | 0   | 14    |
| Rb     | 7           | 3           | 0           | 0          | 2          | 0      | 0   | 12    |
| P      | 1           | 0           | 0           | 0          | 0          | 0      | 1   | 2     |
| Colon  | 28          | 7           | 1           | 3          | 4          | 4      | 2   | 49    |
| Rectum | 17          | 6           | 0           | 5          | 7          | 0      | 1   | 36    |
| Total  | 45          | 13          | 1           | 8          | 11         | 4      | 3   | 85    |

Exploratory      Exploratory laparotomy  
 Ileum            Ileostomy  
 Right colon      Colostomy on the right colon  
 Transverse      Colostomy on the transverse colon  
 Left colon       Colostomy on the left colon

Table 24-2

## Operative procedures, laparoscopic surgery

| Laparoscopic surgery (LS) |       |         |             |     |     |       |
|---------------------------|-------|---------|-------------|-----|-----|-------|
| Site                      | No    | Yes     |             |     | X   | Total |
|                           |       | LS only | LS assisted | OTH |     |       |
| V                         | 19    | 2       | 4           | 0   | 3   | 28    |
| C                         | 399   | 51      | 63          | 1   | 18  | 532   |
| A                         | 776   | 104     | 111         | 2   | 43  | 1,036 |
| T                         | 489   | 48      | 63          | 5   | 34  | 639   |
| D                         | 232   | 28      | 21          | 0   | 10  | 291   |
| S                         | 1,249 | 244     | 173         | 5   | 93  | 1,764 |
| Rs                        | 650   | 110     | 53          | 6   | 39  | 858   |
| Ra                        | 644   | 56      | 59          | 6   | 34  | 799   |
| Rb                        | 906   | 45      | 31          | 3   | 49  | 1,034 |
| P                         | 49    | 0       | 0           | 0   | 2   | 51    |
| Colon                     | 3,164 | 477     | 435         | 13  | 201 | 4,290 |
| Rectum                    | 2,249 | 211     | 143         | 15  | 124 | 2,742 |
| Total                     | 5,413 | 688     | 578         | 28  | 325 | 7,032 |

Table 24-3

## Operative procedures

|   |                           |       |
|---|---------------------------|-------|
| Polypectomy                             | trans-abdominal           | 4     |
|   | trans-anal                | 4     |
|   | trans-sacral              | 1     |
|   | trans-sphincteric         | 0     |
| Tumorectomy                             | trans-abdominal           | 1     |
|   | trans-anal                | 80    |
|   | trans-sacral              | 3     |
|   | trans-sphincteric         | 10    |
| Segmental resection                     | colon                     | 131   |
|   | rectum                    | 4     |
| Appendectomy                            |                           | 5     |
| Ileocecal resection                     |                           | 433   |
| Ascending colectomy                     |                           | 66    |
| Right hemicolectomy                     |                           | 1,143 |
| Transverse colectomy                    |                           | 342   |
| Descending colectomy                    |                           | 112   |
| Left hemicolectomy                      |                           | 200   |
| Sigmoidectomy                           |                           | 1,404 |
| Subtotal colectomy                      |                           | 9     |
| Total colectomy                         |                           | 12    |
| Sphincter preserving operation          | high anterior resection   | 652   |
|   | low anterior resection    | 1,492 |
|   | posterior resection       | 3     |
|   | invagination method       | 0     |
|   | pull through procedure    | 0     |
|   | abdominosacral resection  | 17    |
| Hartmann's operation                    |                           | 232   |
| Amputation of the rectum                | abdominoperineal          | 366   |
|   | abdominosacral            | 18    |
| Total pelvic exenteration               |                           | 27    |
| Total resection of the colon and rectum |                           |       |
|   | with ileostomy            | 3     |
|   | with ileoanal anastomosis | 10    |
| OTH                                     |                           | 78    |
| X                                       |                           | 131   |
| Total                                   |                           | 6,993 |

Table 25-1

## Lymph node dissection, paraintestinal, by site

| Site   | Lymph node dissection, paraintestinal nodes |       |       |     | Total |
|--------|---|-------|-------|-----|-------|
|        | D0  | D1    | D2    | X   |       |
| V      | 4   | 7     | 13    | 3   | 27    |
| C      | 7   | 158   | 335   | 30  | 530   |
| A      | 15  | 268   | 694   | 55  | 1,032 |
| T      | 15  | 216   | 359   | 46  | 636   |
| D      | 4   | 85    | 181   | 21  | 291   |
| S      | 28  | 488   | 1,131 | 108 | 1,755 |
| Rs     | 6   | 187   | 609   | 52  | 854   |
| Ra     | 10  | 197   | 529   | 53  | 789   |
| Rb     | 71  | 193   | 694   | 72  | 1,030 |
| P      | 4   | 9     | 34    | 2   | 49    |
| Colon  | 73  | 1,222 | 2,713 | 263 | 4,271 |
| Rectum | 91  | 586   | 1,866 | 179 | 2,722 |
| Total  | 164   | 1,808 | 4,579 | 442 | 6,993 |

Table 25-2

## Lymph node dissection, mesenteric, by site

| Site   | Lymph node dissection, mesenteric nodes |       |       |     | Total |
|--------|---|-------|-------|-----|-------|
|        | D0                                      | D2    | D3    | X   |       |
| V      | 7                                       | 4     | 13    | 3   | 27    |
| C      | 22                                      | 145   | 337   | 26  | 530   |
| A      | 59                                      | 301   | 631   | 41  | 1,032 |
| T      | 82                                      | 240   | 265   | 49  | 636   |
| D      | 24                                      | 119   | 130   | 18  | 291   |
| S      | 101                                     | 585   | 976   | 93  | 1,755 |
| Rs     | 33                                      | 253   | 527   | 41  | 854   |
| Ra     | 31                                      | 224   | 490   | 44  | 789   |
| Rb     | 83                                      | 253   | 621   | 73  | 1,030 |
| P      | 6                                       | 12    | 28    | 3   | 49    |
| Colon  | 295                                     | 1,394 | 2,352 | 230 | 4,271 |
| Rectum | 153                                     | 742   | 1,666 | 161 | 2,722 |
| Total  | 448                                     | 2,136 | 4,018 | 391 | 6,993 |

Table 25-3

## Lymph node dissection, rectum, lateral, by site

| Site  | Lymph node dissection, lateral nodes |     |     |     | Total |
|-------|--------------------------------------|-----|-----|-----|-------|
|       | D0                                   | D2  | D3  | X   |       |
| Rs    | 486                                  | 35  | 46  | 287 | 854   |
| Ra    | 453                                  | 38  | 71  | 227 | 789   |
| Rb    | 472                                  | 68  | 311 | 179 | 1,030 |
| P     | 12                                   | 4   | 26  | 7   | 49    |
| Total | 1,423                                | 145 | 454 | 700 | 2,722 |

D0 No dissection or incomplete dissection of Group 1 lymph nodes

D1 Dissection of Group 1 lymph nodes

D2 Dissection of Group 1 and 2 lymph nodes

D3 Dissection of Group 1, 2 and 3 lymph nodes

Table 26-1

## Combined resection, by site

| Site   | Number of organs resected |     |     |    |    |     |       | Total |
|--------|---------------------------|-----|-----|----|----|-----|-------|-------|
|        | 0                         | 1   | 2   | 3  | 4  | >=5 | X     |       |
| V      | 4                         | 0   | 5   | 0  | 0  | 0   | 18    | 27    |
| C      | 94                        | 52  | 14  | 2  | 1  | 0   | 367   | 530   |
| A      | 158                       | 91  | 14  | 4  | 2  | 0   | 763   | 1,032 |
| T      | 131                       | 59  | 16  | 1  | 0  | 0   | 429   | 636   |
| D      | 52                        | 21  | 5   | 4  | 0  | 0   | 209   | 291   |
| S      | 298                       | 139 | 36  | 20 | 3  | 0   | 1,259 | 1,755 |
| Rs     | 146                       | 67  | 13  | 10 | 3  | 1   | 614   | 854   |
| Ra     | 137                       | 49  | 22  | 6  | 2  | 0   | 573   | 789   |
| Rb     | 150                       | 56  | 17  | 10 | 0  | 1   | 796   | 1,030 |
| P      | 7                         | 0   | 0   | 1  | 1  | 0   | 40    | 49    |
| Colon  | 737                       | 362 | 90  | 31 | 6  | 0   | 3,045 | 4,271 |
| Rectum | 440                       | 172 | 52  | 27 | 6  | 2   | 2,023 | 2,722 |
| Total  | 1,177                     | 534 | 142 | 58 | 12 | 2   | 5,068 | 6,993 |



Table 26-2

Combined resection, by site (multi-answers)

| Organ           | Site |    |     |     |    |     |     |     |     |    | Total |
|-----------------|------|----|-----|-----|----|-----|-----|-----|-----|----|-------|
|                 | V    | C  | A   | T   | D  | S   | Rs  | Ra  | Rb  | P  |       |
| Abdominal wall  | 1    | 23 | 19  | 9   | 13 | 20  | 4   | 2   | 3   | 0  | 94    |
| Pelvic wall     | 0    | 0  | 0   | 0   | 0  | 0   | 0   | 3   | 1   | 0  | 4     |
| Uterus          | 0    | 1  | 4   | 1   | 1  | 24  | 16  | 16  | 21  | 3  | 87    |
| Ovary & tube    | 2    | 7  | 5   | 6   | 1  | 34  | 25  | 13  | 14  | 2  | 109   |
| Vagina          | 0    | 0  | 0   | 0   | 0  | 1   | 1   | 3   | 14  | 2  | 21    |
| Seminal vesicle | 0    | 0  | 0   | 0   | 0  | 5   | 5   | 13  | 15  | 0  | 38    |
| Prostate        | 0    | 0  | 1   | 0   | 0  | 8   | 3   | 8   | 17  | 0  | 37    |
| Bladder         | 1    | 1  | 1   | 1   | 1  | 65  | 25  | 13  | 12  | 0  | 120   |
| Ureter          | 0    | 1  | 0   | 0   | 0  | 7   | 4   | 3   | 3   | 1  | 19    |
| Stomach         | 0    | 1  | 9   | 13  | 3  | 8   | 5   | 2   | 2   | 0  | 43    |
| Duodenum        | 0    | 1  | 12  | 1   | 0  | 0   | 1   | 1   | 1   | 0  | 17    |
| Small intestine | 2    | 9  | 11  | 11  | 4  | 36  | 16  | 2   | 3   | 0  | 94    |
| Colon           | 2    | 10 | 5   | 7   | 5  | 12  | 13  | 13  | 5   | 0  | 72    |
| Rectum          | 0    | 1  | 3   | 3   | 0  | 6   | 3   | 2   | 0   | 0  | 18    |
| Liver           | 0    | 11 | 27  | 20  | 5  | 37  | 17  | 15  | 16  | 0  | 148   |
| Omentum         | 1    | 10 | 8   | 9   | 0  | 6   | 1   | 0   | 0   | 0  | 35    |
| Remote organ    | 0    | 0  | 1   | 0   | 0  | 1   | 0   | 0   | 0   | 0  | 2     |
| OTH             | 2    | 21 | 53  | 27  | 16 | 48  | 17  | 21  | 18  | 3  | 226   |
| X               | 0    | 2  | 2   | 1   | 0  | 0   | 1   | 0   | 1   | 0  | 7     |
| Total           | 11   | 99 | 161 | 109 | 49 | 318 | 157 | 130 | 146 | 11 | 1,191 |

Table 27-1

Treatment for liver metastasis, by site

| Site   | Resection of liver metastasis |            |   | Total |
|--------|-------------------------------|------------|---|-------|
|        | Complete                      | Incomplete | X |       |
| C      | 10                            | 5          | 1 | 16    |
| A      | 19                            | 8          | 2 | 29    |
| T      | 8                             | 6          | 1 | 15    |
| D      | 4                             | 3          | 1 | 8     |
| S      | 37                            | 19         | 1 | 57    |
| Rs     | 19                            | 8          | 1 | 28    |
| Ra     | 21                            | 10         | 0 | 31    |
| Rb     | 17                            | 7          | 1 | 25    |
| P      | 0                             | 0          | 0 | 0     |
| Colon  | 78                            | 41         | 6 | 125   |
| Rectum | 57                            | 25         | 2 | 84    |
| Total  | 135                           | 66         | 8 | 209   |

Table 27-2

## Treatment for liver metastasis

| Liver metastasis | Resection of liver metastasis |            |   | Total |
|------------------|-------------------------------|------------|---|-------|
|                  | Complete                      | Incomplete | X |       |
| H1               | 95                            | 15         | 1 | 111   |
| H2               | 24                            | 10         | 4 | 38    |
| H3               | 16                            | 41         | 3 | 60    |
| Total            | 135                           | 66         | 8 | 209   |

Table 27-3

## Treatment for liver metastasis, by site

| Site   | Treatment modality other than hepatectomy |     |     | Total |
|--------|---|-----|-----|-------|
|        | Ethanol                                   | MCT | OTH |       |
| V      | 0   | 0   | 0   | 0     |
| C      | 0   | 2   | 2   | 4     |
| A      | 1   | 1   | 4   | 6     |
| T      | 0   | 1   | 0   | 1     |
| D      | 0   | 0   | 0   | 0     |
| S      | 0   | 3   | 14  | 17    |
| Rs     | 0   | 2   | 10  | 12    |
| Ra     | 1   | 2   | 4   | 7     |
| Rb     | 0   | 1   | 5   | 6     |
| Colon  | 1   | 7   | 20  | 28    |
| Rectum | 1   | 5   | 19  | 25    |
| Total  | 2   | 12  | 39  | 53    |

Table 27-4

## Treatment for liver metastasis (multi-answers)

| Liver metastasis | Treatment modality other than hepatectomy |     |     | Total |
|------------------|---|-----|-----|-------|
|                  | Ethanol                                   | MCT | OTH |       |
| H1               | 0   | 9   | 6   | 15    |
| H2               | 1   | 2   | 10  | 13    |
| H3               | 1   | 1   | 23  | 25    |
| Total            | 2   | 12  | 39  | 53    |

Ethanol Ethanol injection therapy

MCT Microwave coagulation therapy

Table 28-1

## Curability of surgical resection, macroscopic, by site

| Site   | Curability of surgical resection |       |       |              |     | Total |
|--------|----------------------------------|-------|-------|--------------|-----|-------|
|        | Cur A                            | Cur B | Cur C | Not resected | X   |       |
| V      | 17                               | 1     | 8     | 1            | 1   | 28    |
| C      | 400                              | 37    | 77    | 3            | 15  | 532   |
| A      | 800                              | 68    | 141   | 3            | 24  | 1,036 |
| T      | 494                              | 38    | 83    | 4            | 20  | 639   |
| D      | 227                              | 17    | 38    | 0            | 9   | 291   |
| S      | 1,352                            | 114   | 234   | 8            | 56  | 1,764 |
| Rs     | 652                              | 70    | 103   | 3            | 30  | 858   |
| Ra     | 627                              | 44    | 99    | 9            | 20  | 799   |
| Rb     | 826                              | 64    | 109   | 4            | 31  | 1,034 |
| P      | 44                               | 1     | 3     | 2            | 1   | 51    |
| Colon  | 3,290                            | 275   | 581   | 19           | 125 | 4,290 |
| Rectum | 2,149                            | 179   | 314   | 18           | 82  | 2,742 |
| Total  | 5,439                            | 454   | 895   | 37           | 207 | 7,032 |

Cur A No residual tumors

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

Cur C Definite residual tumors

Table 28-2

## Curability of surgical resection, microscopic, by site

| Site   | Curability of surgical resection |       |       |              |     | Total |
|--------|----------------------------------|-------|-------|--------------|-----|-------|
|        | cur A                            | cur B | cur C | Not resected | X   |       |
| V      | 20                               | 1     | 6     | 1            | 0   | 28    |
| C      | 401                              | 38    | 75    | 3            | 15  | 532   |
| A      | 809                              | 63    | 148   | 3            | 13  | 1,036 |
| T      | 501                              | 40    | 81    | 3            | 14  | 639   |
| D      | 228                              | 15    | 40    | 0            | 8   | 291   |
| S      | 1,385                            | 108   | 233   | 11           | 27  | 1,764 |
| Rs     | 665                              | 68    | 102   | 4            | 19  | 858   |
| Ra     | 630                              | 45    | 100   | 8            | 16  | 799   |
| Rb     | 831                              | 67    | 117   | 5            | 14  | 1,034 |
| P      | 44                               | 2     | 3     | 2            | 0   | 51    |
| Colon  | 3,344                            | 265   | 583   | 21           | 77  | 4,290 |
| Rectum | 2,170                            | 182   | 322   | 19           | 49  | 2,742 |
| Total  | 5,514                            | 447   | 905   | 40           | 126 | 7,032 |

cur A No residual tumors

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

cur C Definite residual tumors

Table 29-1

## Histological stage, by site

| Site   | Histological stage |       |       |       |      |       |    | Total |
|--------|--------------------|-------|-------|-------|------|-------|----|-------|
|        | 0                  | I     | II    | IIIa  | IIIb | IV    | X  |       |
| V      | 4                  | 2     | 8     | 4     | 2    | 8     | 0  | 28    |
| C      | 33                 | 110   | 120   | 113   | 52   | 101   | 3  | 532   |
| A      | 52                 | 162   | 342   | 219   | 90   | 166   | 5  | 1,036 |
| T      | 49                 | 132   | 198   | 109   | 45   | 104   | 2  | 639   |
| D      | 14                 | 47    | 98    | 74    | 12   | 46    | 0  | 291   |
| S      | 54                 | 356   | 509   | 394   | 143  | 303   | 5  | 1,764 |
| Rs     | 20                 | 144   | 269   | 212   | 81   | 130   | 2  | 858   |
| Ra     | 16                 | 141   | 213   | 226   | 78   | 119   | 6  | 799   |
| Rb     | 53                 | 292   | 239   | 192   | 140  | 112   | 6  | 1,034 |
| P      | 3                  | 15    | 8     | 8     | 9    | 5     | 3  | 51    |
| Colon  | 206                | 809   | 1,275 | 913   | 344  | 728   | 15 | 4,290 |
| Rectum | 92                 | 592   | 729   | 638   | 308  | 366   | 17 | 2,742 |
| Total  | 298                | 1,401 | 2,004 | 1,551 | 652  | 1,094 | 32 | 7,032 |

Table 29-2

## Histological stage, by curability of surgical resection

| Curability   | Histological stage |       |       |       |      |       |    | Total |
|--------------|--------------------|-------|-------|-------|------|-------|----|-------|
|              | 0                  | I     | II    | IIIa  | IIIb | IV    | X  |       |
| cur A        | 292                | 1,368 | 1,849 | 1,406 | 549  | 32    | 18 | 5,514 |
| cur B        | 1                  | 7     | 80    | 71    | 53   | 233   | 2  | 447   |
| cur C        | 2                  | 3     | 43    | 47    | 37   | 771   | 2  | 905   |
| Not resected | 0                  | 2     | 1     | 1     | 0    | 34    | 2  | 40    |
| X            | 3                  | 21    | 31    | 26    | 13   | 24    | 8  | 126   |
| Total        | 298                | 1,401 | 2,004 | 1,551 | 652  | 1,094 | 32 | 7,032 |

Table 30

## Accompanied lesion, by site (multi-answers)

| Site   | Accompanied lesions |                   |                            |                    |                           |                 |     | X  | Total |
|--------|---------------------|-------------------|----------------------------|--------------------|---------------------------|-----------------|-----|----|-------|
|        | Adenoma             | Adenom-<br>atosis | Ulcer-<br>ative<br>colitis | Crohn's<br>disease | Radiat-<br>ion<br>colitis | Anal<br>fistula | OTH |    |       |
| V      | 4                   | 0                 | 0                          | 0                  | 0                         | 0               | 0   | 0  | 4     |
| C      | 60                  | 1                 | 0                          | 0                  | 0                         | 0               | 13  | 3  | 77    |
| A      | 114                 | 3                 | 0                          | 0                  | 0                         | 0               | 24  | 17 | 158   |
| T      | 64                  | 6                 | 0                          | 0                  | 0                         | 0               | 11  | 8  | 89    |
| D      | 22                  | 0                 | 2                          | 0                  | 0                         | 0               | 9   | 3  | 36    |
| S      | 145                 | 8                 | 1                          | 0                  | 0                         | 0               | 38  | 17 | 209   |
| Rs     | 64                  | 4                 | 1                          | 0                  | 0                         | 0               | 13  | 15 | 97    |
| Ra     | 67                  | 5                 | 1                          | 0                  | 2                         | 0               | 10  | 6  | 91    |
| Rb     | 86                  | 5                 | 2                          | 0                  | 0                         | 0               | 11  | 16 | 120   |
| P      | 1                   | 0                 | 0                          | 0                  | 0                         | 0               | 1   | 2  | 4     |
| Colon  | 409                 | 18                | 3                          | 0                  | 0                         | 0               | 95  | 48 | 573   |
| Rectum | 218                 | 14                | 4                          | 0                  | 2                         | 0               | 35  | 39 | 312   |
| Total  | 627                 | 32                | 7                          | 0                  | 2                         | 0               | 130 | 87 | 885   |

Table 31

## Site and number of cancers

| Site   | Number of cancers |    |   |          |    | Total |
|--------|-------------------|----|---|----------|----|-------|
|        | 1                 | 2  | 3 | $\geq 4$ | X  |       |
| V      | 0                 | 0  | 0 | 0        | 0  | 0     |
| C      | 21                | 1  | 0 | 0        | 3  | 25    |
| A      | 44                | 3  | 1 | 1        | 2  | 51    |
| T      | 40                | 3  | 2 | 0        | 2  | 47    |
| D      | 19                | 1  | 0 | 0        | 2  | 22    |
| S      | 173               | 8  | 0 | 6        | 3  | 190   |
| Rs     | 52                | 2  | 0 | 2        | 1  | 57    |
| Ra     | 36                | 1  | 0 | 0        | 2  | 39    |
| Rb     | 40                | 3  | 0 | 0        | 4  | 47    |
| P      | 0                 | 0  | 0 | 0        | 1  | 1     |
| Colon  | 297               | 16 | 3 | 7        | 12 | 335   |
| Rectum | 128               | 6  | 0 | 2        | 8  | 144   |
| Total  | 425               | 22 | 3 | 9        | 20 | 479   |

Table 32-1

## Endoscopic excision

| Site   | Modality of endoscopic resection |     |    | Total |
|--------|----------------------------------|-----|----|-------|
|        | Electric cautery                 | OTH | X  |       |
| V      | 0                                | 0   | 0  | 0     |
| C      | 18                               | 0   | 7  | 25    |
| A      | 40                               | 0   | 11 | 51    |
| T      | 38                               | 0   | 9  | 47    |
| D      | 19                               | 0   | 3  | 22    |
| S      | 162                              | 0   | 28 | 190   |
| Rs     | 47                               | 0   | 10 | 57    |
| Ra     | 32                               | 0   | 7  | 39    |
| Rb     | 34                               | 0   | 13 | 47    |
| P      | 0                                | 0   | 1  | 1     |
| Colon  | 277                              | 0   | 58 | 335   |
| Rectum | 113                              | 0   | 31 | 144   |
| Total  | 390                              | 0   | 89 | 479   |

Table 32-2

## Endoscopic excision, evaluation of the excision

| Site   | Excision |            |             |    | Total |
|--------|----------|------------|-------------|----|-------|
|        | Complete | Incomplete | Undecidable | X  |       |
| V      | 0        | 0          | 0           | 0  | 0     |
| C      | 15       | 5          | 0           | 5  | 25    |
| A      | 31       | 6          | 4           | 10 | 51    |
| T      | 23       | 9          | 6           | 9  | 47    |
| D      | 12       | 6          | 1           | 3  | 22    |
| S      | 140      | 17         | 11          | 22 | 190   |
| Rs     | 37       | 11         | 3           | 6  | 57    |
| Ra     | 28       | 6          | 2           | 3  | 39    |
| Rb     | 29       | 8          | 2           | 8  | 47    |
| P      | 0        | 0          | 0           | 1  | 1     |
| Colon  | 221      | 43         | 22          | 49 | 335   |
| Rectum | 94       | 25         | 7           | 18 | 144   |
| Total  | 315      | 68         | 29          | 67 | 479   |

Table 32-3

## Endoscopic excision, evaluation of the retrieval of resected specimens

| Site   | Specimens |            |              |    | Total |
|--------|-----------|------------|--------------|----|-------|
|        | Complete  | Incomplete | No retrieval | X  |       |
| V      | 0         | 0          | 0            | 0  | 0     |
| C      | 19        | 1          | 0            | 5  | 25    |
| A      | 39        | 2          | 0            | 10 | 51    |
| T      | 35        | 3          | 0            | 9  | 47    |
| D      | 15        | 3          | 0            | 4  | 22    |
| S      | 164       | 3          | 1            | 22 | 190   |
| Rs     | 49        | 2          | 0            | 6  | 57    |
| Ra     | 35        | 1          | 0            | 3  | 39    |
| Rb     | 34        | 4          | 0            | 9  | 47    |
| P      | 0         | 0          | 0            | 1  | 1     |
| Colon  | 272       | 12         | 1            | 50 | 335   |
| Rectum | 118       | 7          | 0            | 19 | 144   |
| Total  | 390       | 19         | 1            | 69 | 479   |

Table 33-1

## Gross appearance, by site

| Site   | Gross appearance |     |    |     |         |     |     |         |     | X  | Total |
|--------|------------------|-----|----|-----|---------|-----|-----|---------|-----|----|-------|
|        | Ip               | Isp | Is | IIa | IIa+IIc | IIb | IIc | IIc+IIa | OTH |    |       |
| V      | 0                | 0   | 0  | 0   | 0       | 0   | 0   | 0       | 0   | 0  | 0     |
| C      | 3                | 6   | 3  | 7   | 0       | 0   | 0   | 0       | 2   | 4  | 25    |
| A      | 9                | 9   | 10 | 9   | 4       | 0   | 2   | 0       | 3   | 5  | 51    |
| T      | 2                | 16  | 6  | 8   | 1       | 0   | 1   | 0       | 4   | 9  | 47    |
| D      | 4                | 5   | 3  | 0   | 0       | 0   | 0   | 0       | 2   | 8  | 22    |
| S      | 55               | 62  | 23 | 13  | 7       | 1   | 3   | 0       | 6   | 20 | 190   |
| Rs     | 4                | 24  | 7  | 4   | 2       | 0   | 0   | 0       | 5   | 11 | 57    |
| Ra     | 5                | 14  | 4  | 7   | 1       | 0   | 0   | 0       | 4   | 4  | 39    |
| Rb     | 2                | 12  | 8  | 7   | 2       | 0   | 0   | 0       | 4   | 12 | 47    |
| P      | 0                | 0   | 0  | 0   | 0       | 0   | 0   | 0       | 0   | 1  | 1     |
| Colon  | 73               | 98  | 45 | 37  | 12      | 1   | 6   | 0       | 17  | 46 | 335   |
| Rectum | 11               | 50  | 19 | 18  | 5       | 0   | 0   | 0       | 13  | 28 | 144   |
| Total  | 84               | 148 | 64 | 55  | 17      | 1   | 6   | 0       | 30  | 74 | 479   |

Table 33-2

## Gross appearance, by DI

| DI                           | Gross appearance |     |    |     |         |     |     |         |     | X  | Total |
|------------------------------|------------------|-----|----|-----|---------|-----|-----|---------|-----|----|-------|
|                              | Ip               | Isp | Is | IIa | IIa+IIc | IIb | IIc | IIc+IIa | OTH |    |       |
| m                            | 53               | 61  | 22 | 25  | 3       | 0   | 0   | 2       | 19  | 14 | 199   |
| sm                           | 29               | 76  | 39 | 26  | 12      | 1   | 0   | 4       | 11  | 52 | 250   |
| mp                           | 0                | 3   | 2  | 1   | 0       | 0   | 0   | 0       | 0   | 4  | 10    |
| >ss/a1                       | 2                | 4   | 1  | 2   | 1       | 0   | 0   | 0       | 0   | 2  | 12    |
| X                            | 0                | 4   | 0  | 1   | 1       | 0   | 0   | 0       | 0   | 2  | 8     |
| Total                        | 84               | 148 | 64 | 55  | 17      | 1   | 0   | 6       | 30  | 74 | 479   |
| Depth of submucosal invasion |                  |     |    |     |         |     |     |         |     |    |       |
| slight                       | 7                | 15  | 5  | 6   | 2       | 0   | 1   | 0       | 4   | 7  | 47    |
| massive                      | 16               | 35  | 20 | 16  | 5       | 1   | 2   | 0       | 6   | 18 | 119   |
| X                            | 6                | 26  | 14 | 4   | 5       | 0   | 1   | 0       | 1   | 27 | 84    |



Table 34  
DI, by site

| Site   | DI  |     |    |        |   |       | Grade of sm invasion |         |     |
|--------|-----|-----|----|--------|---|-------|----------------------|---------|-----|
|        | m   | sm  | mp | >ss/al | X | Total | slight               | massive | NOS |
|        |     |     |    |        |   |       |                      |         |     |
| V      | 0   | 0   | 0  | 0      | 0 | 0     | 0                    | 0       | 0   |
| C      | 13  | 10  | 1  | 0      | 1 | 25    | 1                    | 6       | 3   |
| A      | 26  | 21  | 1  | 2      | 1 | 51    | 5                    | 9       | 7   |
| T      | 25  | 19  | 1  | 2      | 0 | 47    | 6                    | 6       | 7   |
| D      | 8   | 14  | 0  | 0      | 0 | 22    | 3                    | 6       | 5   |
| S      | 83  | 95  | 4  | 5      | 3 | 190   | 17                   | 50      | 28  |
| Rs     | 19  | 32  | 1  | 3      | 2 | 57    | 8                    | 15      | 9   |
| Ra     | 13  | 26  | 0  | 0      | 0 | 39    | 3                    | 10      | 13  |
| Rb     | 12  | 32  | 2  | 0      | 1 | 47    | 4                    | 17      | 11  |
| P      | 0   | 1   | 0  | 0      | 0 | 1     | 0                    | 0       | 1   |
| Colon  | 155 | 159 | 7  | 9      | 5 | 335   | 32                   | 77      | 50  |
| Rectum | 44  | 91  | 3  | 3      | 3 | 144   | 15                   | 42      | 34  |
| Total  | 199 | 250 | 10 | 12     | 8 | 479   | 47                   | 119     | 84  |

Table 35-1  
Histological classification, by site

| Site   | Histological classification |                                      |   | X   | Total |
|--------|-----------------------------|--------------------------------------|---|-----|-------|
|        | Carcinoma in adenoma        | Carcinoma with adenomatous component | Carcinoma without adenomatous component |     |       |
| V      | 0                           | 0                                    | 0                                       | 0   | 0     |
| C      | 8                           | 3                                    | 6                                       | 8   | 25    |
| A      | 18                          | 9                                    | 10                                      | 14  | 51    |
| T      | 19                          | 7                                    | 7                                       | 14  | 47    |
| D      | 7                           | 5                                    | 5                                       | 5   | 22    |
| S      | 61                          | 44                                   | 38                                      | 47  | 190   |
| Rs     | 17                          | 11                                   | 14                                      | 15  | 57    |
| Ra     | 13                          | 3                                    | 10                                      | 13  | 39    |
| Rb     | 10                          | 10                                   | 11                                      | 16  | 47    |
| P      | 0                           | 0                                    | 0                                       | 1   | 1     |
| Colon  | 113                         | 68                                   | 66                                      | 88  | 335   |
| Rectum | 40                          | 24                                   | 35                                      | 45  | 144   |
| Total  | 153                         | 92                                   | 101                                     | 133 | 479   |

Table 35-2

## Histological classification, by site

| Site   | Histological classification |     |     |     |     |     | Total |
|--------|-----------------------------|-----|-----|-----|-----|-----|-------|
|        | w/d                         | m/d | p/d | muc | sig | NOS |       |
| V      | 0                           | 0   | 0   | 0   | 0   | 0   | 0     |
| C      | 19                          | 5   | 1   | 0   | 0   | 0   | 25    |
| A      | 40                          | 6   | 2   | 3   | 0   | 0   | 51    |
| T      | 41                          | 5   | 0   | 1   | 0   | 0   | 47    |
| D      | 17                          | 4   | 0   | 1   | 0   | 0   | 22    |
| S      | 147                         | 38  | 0   | 5   | 0   | 0   | 190   |
| Rs     | 44                          | 11  | 1   | 1   | 0   | 0   | 57    |
| Ra     | 28                          | 10  | 0   | 0   | 1   | 0   | 39    |
| Rb     | 35                          | 12  | 0   | 0   | 0   | 0   | 47    |
| P      | 1                           | 0   | 0   | 0   | 0   | 0   | 1     |
| Colon  | 264                         | 58  | 3   | 10  | 0   | 0   | 335   |
| Rectum | 108                         | 33  | 1   | 1   | 1   | 0   | 144   |
| Total  | 372                         | 91  | 4   | 11  | 1   | 0   | 479   |

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

Table 36

## Lymphatic invasion and sm invasion

| sm invasion | Lymphatic invasion |     |     |     |       |    | Total |
|-------------|--------------------|-----|-----|-----|-------|----|-------|
|             | ly0                | ly1 | ly2 | ly3 | ly(+) | X  |       |
| slight      | 33                 | 9   | 0   | 0   | 1     | 4  | 47    |
| massive     | 76                 | 28  | 3   | 0   | 4     | 8  | 119   |
| NOS         | 51                 | 15  | 1   | 1   | 3     | 13 | 84    |
| Total       | 160                | 52  | 4   | 1   | 8     | 25 | 250   |

Table 37

## Venous invasion and sm invasion

| sm invasion | Venous invasion |    |    |    |      |    | Total |
|-------------|-----------------|----|----|----|------|----|-------|
|             | v0              | v1 | v2 | v3 | v(+) | X  |       |
| slight      | 35              | 5  | 1  | 0  | 1    | 5  | 47    |
| massive     | 83              | 18 | 6  | 1  | 2    | 9  | 119   |
| NOS         | 47              | 20 | 2  | 0  | 2    | 13 | 84    |
| Total       | 165             | 43 | 9  | 1  | 5    | 27 | 250   |

Table 38-1

## Tumor size, by gross appearance

| Size<br>(mm) | Gross appearance |     |    |     |         |     |     |         |     |    | Total |
|--------------|------------------|-----|----|-----|---------|-----|-----|---------|-----|----|-------|
|              | Ip               | Isp | Is | IIa | IIa+IIc | IIb | IIc | IIc+IIa | OTH | X  |       |
| ≤5           | 1                | 8   | 6  | 2   | 1       | 0   | 0   | 0       | 0   | 5  | 23    |
| 6-10         | 21               | 54  | 19 | 15  | 7       | 1   | 5   | 0       | 7   | 11 | 140   |
| 11-15        | 27               | 36  | 17 | 14  | 3       | 0   | 0   | 0       | 7   | 16 | 120   |
| 16-20        | 18               | 22  | 11 | 9   | 5       | 0   | 1   | 0       | 6   | 3  | 75    |
| 21-30        | 10               | 20  | 7  | 11  | 1       | 0   | 0   | 0       | 7   | 13 | 69    |
| 31-40        | 4                | 3   | 0  | 0   | 0       | 0   | 0   | 0       | 2   | 6  | 15    |
| >40          | 1                | 2   | 2  | 4   | 0       | 0   | 0   | 0       | 1   | 3  | 13    |
| X            | 2                | 3   | 2  | 0   | 0       | 0   | 0   | 0       | 0   | 17 | 24    |
| Total        | 84               | 148 | 64 | 55  | 17      | 1   | 6   | 0       | 30  | 74 | 479   |

Table 38-2

## Tumor size, by DI

| Size<br>(mm) | DI  |     |    |       |   | Total |
|--------------|-----|-----|----|-------|---|-------|
|              | m   | sm  | mp | ss/al | X |       |
| ≤5           | 10  | 11  | 0  | 0     | 2 | 23    |
| 6-10         | 68  | 64  | 1  | 4     | 3 | 140   |
| 11-15        | 48  | 63  | 3  | 3     | 3 | 120   |
| 16-20        | 36  | 38  | 0  | 1     | 0 | 75    |
| 21-30        | 25  | 37  | 5  | 2     | 0 | 69    |
| 31-40        | 6   | 7   | 1  | 1     | 0 | 15    |
| >40          | 4   | 8   | 0  | 1     | 0 | 13    |
| X            | 2   | 22  | 0  | 0     | 0 | 24    |
| Total        | 199 | 250 | 10 | 12    | 8 | 479   |

Table 39

## Cut end of the specimen, mucosal and submucosal

| DI    |       |     |    |    |    |   |   |        |   |   |   |       |
|-------|-------|-----|----|----|----|---|---|--------|---|---|---|-------|
| m-ce  | m     | sm  |    |    | mp |   |   | >ss/al |   |   | X | Total |
|       | sm-ce |     |    |    |    |   |   |        |   |   |   |       |
|       | —     | +   | X  | —  | +  | X | — | +      | X | X |   |       |
| —     | 153   | 97  | 21 | 5  | 3  | 0 | 0 | 4      | 0 | 0 | 0 | 283   |
| +     | 9     | 4   | 9  | 1  | 1  | 1 | 0 | 0      | 1 | 0 | 0 | 26    |
| X     | 37    | 38  | 17 | 58 | 1  | 0 | 4 | 0      | 0 | 7 | 8 | 170   |
| Total | 199   | 139 | 47 | 64 | 5  | 1 | 4 | 4      | 1 | 7 | 8 | 479   |

m-ce mucosal cut end of the specimen

sm-ce submucosal cut end of the specimen

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

Table 40-1  
Metastasis, by site

| Site   | Any metastasis |     |     | Total |
|--------|----------------|-----|-----|-------|
|        | No             | Yes | X   |       |
| V      | 0              | 0   | 0   | 0     |
| C      | 16             | 0   | 9   | 25    |
| A      | 37             | 1   | 13  | 51    |
| T      | 29             | 2   | 16  | 47    |
| D      | 15             | 0   | 7   | 22    |
| S      | 147            | 0   | 43  | 190   |
| Rs     | 41             | 1   | 15  | 57    |
| Ra     | 32             | 1   | 6   | 39    |
| Rb     | 32             | 1   | 14  | 47    |
| P      | 0              | 0   | 1   | 1     |
| Colon  | 244            | 3   | 88  | 335   |
| Rectum | 105            | 3   | 36  | 144   |
| Total  | 349            | 6   | 124 | 479   |

Table 40-2  
Metastasis, by DI

| DI     | Any metastasis |     |     | Total |
|--------|----------------|-----|-----|-------|
|        | No             | Yes | X   |       |
| m      | 158            | 0   | 41  | 199   |
| sm     | 183            | 4   | 63  | 250   |
| mp     | 4              | 1   | 5   | 10    |
| >ss/a1 | 3              | 1   | 8   | 12    |
| X      | 1              | 0   | 7   | 8     |
| Total  | 349            | 6   | 124 | 479   |

Table 41-1

## Curability of endoscopic excision, by site

| Site   | Evaluation of colorectal endoscopy |       |       |    | Total |
|--------|------------------------------------|-------|-------|----|-------|
|        | cur A                              | cur B | cur C | X  |       |
| V      | 0                                  | 0     | 0     | 0  | 0     |
| C      | 19                                 | 0     | 1     | 5  | 25    |
| A      | 33                                 | 8     | 2     | 8  | 51    |
| T      | 31                                 | 5     | 3     | 8  | 47    |
| D      | 14                                 | 0     | 2     | 6  | 22    |
| S      | 138                                | 11    | 6     | 35 | 190   |
| Rs     | 36                                 | 2     | 5     | 14 | 57    |
| Ra     | 28                                 | 2     | 4     | 5  | 39    |
| Rb     | 28                                 | 4     | 3     | 12 | 47    |
| P      | 0                                  | 0     | 0     | 1  | 1     |
| Colon  | 235                                | 24    | 14    | 62 | 335   |
| Rectum | 92                                 | 8     | 12    | 32 | 144   |
| Total  | 327                                | 32    | 26    | 94 | 479   |

Table 41-2

## Curability of endoscopic excision, by DI

| DI     | Evaluation of colorectal endoscopy |       |       |    | Total |
|--------|------------------------------------|-------|-------|----|-------|
|        | cur A                              | cur B | cur C | X  |       |
| m      | 144                                | 18    | 5     | 32 | 199   |
| sm     | 174                                | 12    | 15    | 49 | 250   |
| mp     | 4                                  | 0     | 3     | 3  | 10    |
| >ss/a1 | 4                                  | 2     | 3     | 3  | 12    |
| X      | 1                                  | 0     | 0     | 7  | 8     |
| Total  | 327                                | 32    | 26    | 94 | 479   |

Table 42-1  
Additional surgery

|  | Additional surgical resection |     | Total |
|--|-------------------------------|-----|-------|
|  | Yes                           | No  |       |
| Site                                       |                               |     |       |
| V  | 0                             | 0   | 0     |
| C  | 15                            | 10  | 25    |
| A  | 26                            | 25  | 51    |
| T  | 27                            | 20  | 47    |
| D  | 16                            | 6   | 22    |
| S  | 97                            | 93  | 190   |
| Rs   | 33                            | 24  | 57    |
| Ra   | 27                            | 12  | 39    |
| Rb   | 31                            | 16  | 47    |
| P  | 1                             | 0   | 1     |
| DI   |                               |     |       |
| m  | 34                            | 165 | 199   |
| sm   | 215                           | 35  | 250   |
| mp   | 10                            | 0   | 10    |
| >ss/a1                                     | 11                            | 1   | 12    |
| X  | 3                             | 5   | 8     |
| sm invasion (sm cancers)                   |                               |     |       |
| slight                                     | 27                            | 20  | 47    |
| massive                                    | 111                           | 8   | 119   |
| NOS  | 77                            | 7   | 84    |
| Histology, Adenomatous component           |                               |     |       |
| Carcinoma in adenoma                       | 55                            | 98  | 153   |
| Carcinoma with<br>adenomatous component    | 32                            | 60  | 92    |
| Carcinoma without<br>adenomatous component | 69                            | 32  | 101   |
| X  | 117                           | 16  | 133   |
| Histological classification                |                               |     |       |
| w/d  | 184                           | 188 | 372   |
| m/d  | 84                            | 7   | 91    |
| p/d  | 2                             | 2   | 4     |
| muc  | 2                             | 9   | 11    |
| sig  | 1                             | 0   | 1     |

Table 42-2  
Additional surgery

|                                    | Additional surgical resection |     | Total |
|------------------------------------|-------------------------------|-----|-------|
|                                    | Yes                           | No  |       |
| m-ce                               |                               |     |       |
| -                                  | 127                           | 156 | 283   |
| +                                  | 22                            | 4   | 26    |
| X                                  | 124                           | 46  | 170   |
| sm-ce (sm cancers)                 |                               |     |       |
| -                                  | 108                           | 31  | 139   |
| +                                  | 47                            | 0   | 47    |
| X                                  | 60                            | 4   | 64    |
| ly (sm cancers)                    |                               |     |       |
| ly0                                | 134                           | 26  | 160   |
| ly1                                | 49                            | 3   | 52    |
| ly2                                | 4                             | 0   | 4     |
| ly3                                | 1                             | 0   | 1     |
| ly(+)                              | 8                             | 0   | 8     |
| X                                  | 19                            | 6   | 25    |
| v (sm cancers)                     |                               |     |       |
| v0                                 | 137                           | 28  | 165   |
| v1                                 | 42                            | 1   | 43    |
| v2                                 | 9                             | 0   | 9     |
| v3                                 | 1                             | 0   | 1     |
| v(+)                               | 5                             | 0   | 5     |
| X                                  | 21                            | 6   | 27    |
| Evaluation of colorectal endoscopy |                               |     |       |
| cur A                              | 178                           | 149 | 327   |
| cur B                              | 14                            | 18  | 32    |
| cur C                              | 23                            | 3   | 26    |
| X                                  | 58                            | 36  | 94    |

Table 43

## Laparoscopic surgery as additional surgery

| Site   | Laparoscopic surgery (LS) |         |             |     |    | Total |
|--------|---------------------------|---------|-------------|-----|----|-------|
|        | No                        | YES     |             |     | X  |       |
|        |                           | LS only | LS assisted | OTH |    |       |
| V      | 0                         | 0       | 0           | 0   | 0  | 0     |
| C      | 5                         | 3       | 5           | 0   | 2  | 15    |
| A      | 16                        | 3       | 7           | 0   | 0  | 26    |
| T      | 18                        | 2       | 7           | 0   | 0  | 27    |
| D      | 7                         | 2       | 5           | 0   | 2  | 16    |
| S      | 40                        | 20      | 33          | 0   | 4  | 97    |
| Rs     | 14                        | 4       | 13          | 0   | 2  | 33    |
| Ra     | 10                        | 5       | 9           | 0   | 3  | 27    |
| Rb     | 17                        | 6       | 6           | 0   | 2  | 31    |
| P      | 0                         | 1       | 0           | 0   | 0  | 1     |
| Colon  | 86                        | 30      | 57          | 0   | 8  | 181   |
| Rectum | 41                        | 16      | 28          | 0   | 7  | 92    |
| Total  | 127                       | 46      | 85          | 0   | 15 | 273   |

Table 44

## Residual cancer in surgically resected specimen, additional surgery

| Site   | Residual cancer in the resected specimen |     |     | Total |
|--------|--|-----|-----|-------|
|        | No                                       | Yes | X   |       |
| V      | 0  | 0   | 0   | 0     |
| C      | 6  | 2   | 7   | 15    |
| A      | 10                                       | 3   | 13  | 26    |
| T      | 7  | 7   | 13  | 27    |
| D      | 5  | 3   | 8   | 16    |
| S      | 44                                       | 5   | 48  | 97    |
| Rs     | 16                                       | 5   | 12  | 33    |
| Ra     | 14                                       | 3   | 10  | 27    |
| Rb     | 12                                       | 7   | 12  | 31    |
| P      | 0  | 0   | 1   | 1     |
| Colon  | 72                                       | 20  | 89  | 181   |
| Rectum | 42                                       | 15  | 35  | 92    |
| Total  | 114                                      | 35  | 124 | 273   |



Table 45

DI, by site, additional surgery

| Site   | DI |     |    |       |       |       | X | Total |
|--------|----|-----|----|-------|-------|-------|---|-------|
|        | m  | sm  | mp | ss/a1 | se/a2 | si/ai |   |       |
| V      | 0  | 0   | 0  | 0     | 0     | 0     | 0 | 0     |
| C      | 5  | 9   | 1  | 0     | 0     | 0     | 0 | 15    |
| A      | 5  | 17  | 1  | 2     | 0     | 1     | 0 | 26    |
| T      | 8  | 17  | 1  | 0     | 1     | 0     | 0 | 27    |
| D      | 2  | 14  | 0  | 0     | 0     | 0     | 0 | 16    |
| S      | 8  | 78  | 4  | 4     | 1     | 1     | 1 | 97    |
| Rs     | 2  | 27  | 1  | 2     | 1     | 0     | 0 | 33    |
| Ra     | 2  | 25  | 0  | 0     | 0     | 0     | 0 | 27    |
| Rb     | 2  | 27  | 2  | 0     | 0     | 0     | 0 | 31    |
| P      | 0  | 1   | 0  | 0     | 0     | 0     | 0 | 1     |
| Colon  | 28 | 135 | 7  | 6     | 2     | 2     | 1 | 181   |
| Rectum | 6  | 80  | 3  | 2     | 1     | 0     | 0 | 92    |
| Total  | 34 | 215 | 10 | 8     | 3     | 2     | 1 | 273   |

Table 46-1

Lymph node metastasis, macroscopic, by site, additional surgery

| Site   | Lymph node metastasis |    |    |    |    |    | Total |
|--------|-----------------------|----|----|----|----|----|-------|
|        | N0                    | N1 | N2 | N3 | N4 | NX |       |
| V      | 0                     | 0  | 0  | 0  | 0  | 0  | 0     |
| C      | 13                    | 2  | 0  | 0  | 0  | 0  | 15    |
| A      | 24                    | 1  | 0  | 0  | 0  | 1  | 26    |
| T      | 18                    | 3  | 3  | 1  | 0  | 2  | 27    |
| D      | 11                    | 2  | 1  | 0  | 0  | 2  | 16    |
| S      | 82                    | 12 | 2  | 0  | 0  | 1  | 97    |
| Rs     | 28                    | 4  | 0  | 0  | 0  | 1  | 33    |
| Ra     | 25                    | 2  | 0  | 0  | 0  | 0  | 27    |
| Rb     | 27                    | 1  | 1  | 0  | 0  | 2  | 31    |
| P      | 1                     | 0  | 0  | 0  | 0  | 0  | 1     |
| Colon  | 148                   | 20 | 6  | 1  | 0  | 6  | 181   |
| Rectum | 81                    | 7  | 1  | 0  | 0  | 3  | 92    |
| Total  | 229                   | 27 | 7  | 1  | 0  | 9  | 273   |

Table 46-2

Lymph node metastasis, histological, by site, additional surgery

| Site   | Lymph node metastasis |    |    |    |    |    | Total |
|--------|-----------------------|----|----|----|----|----|-------|
|        | n0                    | n1 | n2 | n3 | n4 | nX |       |
| V      | 0                     | 0  | 0  | 0  | 0  | 0  | 0     |
| C      | 13                    | 2  | 0  | 0  | 0  | 0  | 15    |
| A      | 24                    | 1  | 0  | 0  | 0  | 1  | 26    |
| T      | 18                    | 3  | 3  | 1  | 0  | 2  | 27    |
| D      | 10                    | 2  | 1  | 0  | 0  | 3  | 16    |
| S      | 80                    | 11 | 2  | 1  | 0  | 3  | 97    |
| Rs     | 26                    | 6  | 0  | 0  | 0  | 1  | 33    |
| Ra     | 24                    | 3  | 0  | 0  | 0  | 0  | 27    |
| Rb     | 24                    | 3  | 0  | 0  | 0  | 4  | 31    |
| P      | 1                     | 0  | 0  | 0  | 0  | 0  | 1     |
| Colon  | 145                   | 19 | 6  | 2  | 0  | 9  | 181   |
| Rectum | 75                    | 12 | 0  | 0  | 0  | 5  | 92    |
| Total  | 220                   | 31 | 6  | 2  | 0  | 14 | 273   |

Table 47

Lymphatic invasion in surgically resected specimen, additional surgery

| Site   | Lymphatic invasion |     |     |     |       |    | Total |
|--------|--------------------|-----|-----|-----|-------|----|-------|
|        | ly0                | ly1 | ly2 | ly3 | ly(+) | X  |       |
| V      | 0                  | 0   | 0   | 0   | 0     | 0  | 0     |
| C      | 7                  | 3   | 1   | 1   | 0     | 3  | 15    |
| A      | 15                 | 5   | 2   | 0   | 0     | 4  | 26    |
| T      | 15                 | 5   | 2   | 1   | 0     | 4  | 27    |
| D      | 10                 | 1   | 1   | 0   | 0     | 4  | 16    |
| S      | 62                 | 14  | 5   | 1   | 1     | 14 | 97    |
| Rs     | 17                 | 6   | 3   | 1   | 0     | 6  | 33    |
| Ra     | 15                 | 10  | 0   | 0   | 0     | 2  | 27    |
| Rb     | 11                 | 8   | 2   | 0   | 0     | 10 | 31    |
| P      | 1                  | 0   | 0   | 0   | 0     | 0  | 1     |
| Colon  | 109                | 28  | 11  | 3   | 1     | 29 | 181   |
| Rectum | 44                 | 24  | 5   | 1   | 0     | 18 | 92    |
| Total  | 153                | 52  | 16  | 4   | 1     | 47 | 273   |

Table 48

## Venous invasion in surgically resected specimen, additional surgery

| Site   | Venous invasion |     |    |    |      |    | Total |
|--------|-----------------|-----|----|----|------|----|-------|
|        | v0              | v1  | v2 | v3 | v(+) | X  |       |
| V      | 0               | 0   | 0  | 0  | 0    | 0  | 0     |
| C      | 3               | 7   | 0  | 2  | 0    | 3  | 15    |
| A      | 3               | 19  | 0  | 0  | 0    | 4  | 26    |
| T      | 6               | 17  | 0  | 1  | 0    | 3  | 27    |
| D      | 3               | 9   | 0  | 0  | 0    | 4  | 16    |
| S      | 15              | 55  | 2  | 10 | 1    | 14 | 97    |
| Rs     | 6               | 18  | 0  | 3  | 0    | 6  | 33    |
| Ra     | 7               | 18  | 0  | 0  | 0    | 2  | 27    |
| Rb     | 7               | 12  | 1  | 2  | 0    | 9  | 31    |
| P      | 0               | 1   | 0  | 0  | 0    | 0  | 1     |
| Colon  | 30              | 107 | 2  | 13 | 1    | 28 | 181   |
| Rectum | 20              | 49  | 1  | 5  | 0    | 17 | 92    |
| Total  | 50              | 156 | 3  | 18 | 1    | 45 | 273   |

Table 49

## Curability of surgical resection, additional surgery

| Site   | Curability |       |       |   | Total |
|--------|------------|-------|-------|---|-------|
|        | cur A      | cur B | cur C | X |       |
| V      | 0          | 0     | 0     | 0 | 0     |
| C      | 15         | 0     | 0     | 0 | 15    |
| A      | 25         | 1     | 0     | 0 | 26    |
| T      | 25         | 2     | 0     | 0 | 27    |
| D      | 14         | 0     | 0     | 2 | 16    |
| S      | 92         | 2     | 2     | 1 | 97    |
| Rs     | 30         | 1     | 0     | 2 | 33    |
| Ra     | 26         | 0     | 1     | 0 | 27    |
| Rb     | 28         | 0     | 0     | 3 | 31    |
| P      | 1          | 0     | 0     | 0 | 1     |
| Colon  | 171        | 5     | 2     | 3 | 181   |
| Rectum | 85         | 1     | 1     | 5 | 92    |
| Total  | 256        | 6     | 3     | 8 | 273   |

Table 50

## Histological stage, additional surgery

| Site   | Histological stage |     |    |      |      |    |   | Total |
|--------|--------------------|-----|----|------|------|----|---|-------|
|        | 0                  | I   | II | IIIa | IIIb | IV | X |       |
| V      | 0                  | 0   | 0  | 0    | 0    | 0  | 0 | 0     |
| C      | 1                  | 11  | 1  | 2    | 0    | 0  | 0 | 15    |
| A      | 5                  | 17  | 2  | 1    | 0    | 0  | 1 | 26    |
| T      | 2                  | 15  | 2  | 3    | 3    | 2  | 0 | 27    |
| D      | 2                  | 9   | 2  | 2    | 1    | 0  | 0 | 16    |
| S      | 4                  | 73  | 3  | 11   | 1    | 3  | 2 | 97    |
| Rs     | 0                  | 25  | 1  | 6    | 0    | 1  | 0 | 33    |
| Ra     | 0                  | 24  | 0  | 3    | 0    | 0  | 0 | 27    |
| Rb     | 1                  | 27  | 0  | 3    | 0    | 0  | 0 | 31    |
| P      | 0                  | 1   | 0  | 0    | 0    | 0  | 0 | 1     |
| Colon  | 14                 | 125 | 10 | 19   | 5    | 5  | 3 | 181   |
| Rectum | 1                  | 77  | 1  | 12   | 0    | 1  | 0 | 92    |
| Total  | 15                 | 202 | 11 | 31   | 5    | 6  | 3 | 273   |

Table 51

## Operative procedures, additional surgery

| Operative procedure                     | Site |    |    |    |    |    |    |    |    |   |     | Total |
|---|------|----|----|----|----|----|----|----|----|---|-----|-------|
|   | V    | C  | A  | T  | D  | S  | Rs | Ra | Rb | P |     |       |
| Trans-anal resection                    | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  | 0 | 2   |       |
| Partial colectomy                       | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  | 0 | 2   |       |
| Partial rectal resection                | 0    | 0  | 0  | 0  | 1  | 2  | 0  | 0  | 0  | 0 | 3   |       |
| Appendectomy                            | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0 | 1   |       |
| Ileocecal resection                     | 0    | 11 | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 16  |       |
| Ascending colectomy                     | 0    | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 1   |       |
| Right colectomy                         | 0    | 4  | 19 | 5  | 1  | 0  | 0  | 0  | 0  | 0 | 29  |       |
| Transverse colectomy                    | 0    | 0  | 0  | 17 | 2  | 1  | 0  | 0  | 0  | 0 | 20  |       |
| Descending colectomy                    | 0    | 0  | 0  | 1  | 6  | 0  | 0  | 0  | 0  | 0 | 7   |       |
| Left colectomy                          | 0    | 0  | 0  | 3  | 4  | 0  | 0  | 0  | 0  | 0 | 7   |       |
| Sigmoidectomy                           | 0    | 0  | 0  | 0  | 0  | 87 | 0  | 0  | 0  | 0 | 87  |       |
| Subtotal colectomy                      | 0    | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0 | 1   |       |
| Total resection of the colon and rectum | 0    | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 1   |       |
| HAR                                     | 0    | 0  | 0  | 0  | 0  | 4  | 20 | 3  | 0  | 0 | 27  |       |
| LAR                                     | 0    | 0  | 0  | 0  | 0  | 3  | 12 | 24 | 24 | 0 | 63  |       |
| Hartmann                                | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0 | 1   |       |
| OTH                                     | 0    | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1 | 1   |       |
| X                                       | 0    | 0  | 0  | 0  | 2  | 0  | 1  | 0  | 1  | 0 | 4   |       |
| Total                                   | 0    | 15 | 26 | 27 | 16 | 97 | 33 | 27 | 31 | 1 | 273 |       |

## Malignant neoplasms other than adenocarcinoma

A total of 228 patients with malignancies other than adenocarcinoma was classified into 3 groups.

|      |                     |          |
|------|---------------------|----------|
| I)   | All                 | 133cases |
| II)  | Surgery             | 113cases |
| III) | Endoscopic excision | 20cases  |

Abbreviations of histological typing in this report.

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

Table 52-1

## Age-specific incidence, males

| Site   | Age   |       |       |       |       |       |       |       | Total |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 |       |
| V      | 0     | 0     | 0     | 1     | 1     | 0     | 0     | 0     | 2     |
| C      | 0     | 0     | 2     | 1     | 4     | 3     | 2     | 0     | 12    |
| A      | 0     | 0     | 1     | 2     | 3     | 2     | 2     | 0     | 10    |
| T      | 0     | 0     | 0     | 0     | 2     | 1     | 0     | 0     | 3     |
| D      | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 1     |
| S      | 0     | 0     | 0     | 4     | 3     | 5     | 1     | 0     | 13    |
| Rs     | 0     | 0     | 1     | 1     | 2     | 1     | 0     | 0     | 5     |
| Ra     | 0     | 0     | 2     | 2     | 4     | 2     | 0     | 0     | 10    |
| Rb     | 0     | 1     | 2     | 7     | 4     | 4     | 0     | 0     | 18    |
| P      | 0     | 0     | 0     | 0     | 1     | 2     | 0     | 0     | 3     |
| Colon  | 0     | 0     | 3     | 8     | 14    | 11    | 5     | 0     | 41    |
| Rectum | 0     | 1     | 5     | 10    | 11    | 9     | 0     | 0     | 36    |
| Total  | 0     | 1     | 8     | 18    | 25    | 20    | 5     | 0     | 77    |

Table 52-2

## Age-specific incidence, females

| Site   | Age   |       |       |       |       |       |       |       | Total |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 |       |
| V      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| C      | 0     | 0     | 0     | 0     | 0     | 3     | 0     | 0     | 3     |
| A      | 0     | 0     | 0     | 1     | 1     | 1     | 1     | 0     | 4     |
| T      | 0     | 0     | 0     | 0     | 1     | 0     | 2     | 1     | 4     |
| D      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| S      | 0     | 0     | 1     | 2     | 1     | 2     | 0     | 0     | 6     |
| Rs     | 0     | 0     | 0     | 1     | 1     | 0     | 0     | 0     | 2     |
| Ra     | 0     | 0     | 2     | 1     | 2     | 1     | 0     | 0     | 6     |
| Rb     | 0     | 1     | 3     | 4     | 6     | 6     | 2     | 0     | 22    |
| P      | 0     | 0     | 1     | 1     | 1     | 2     | 4     | 0     | 9     |
| Colon  | 0     | 0     | 1     | 3     | 3     | 6     | 3     | 1     | 17    |
| Rectum | 0     | 1     | 6     | 7     | 10    | 9     | 6     | 0     | 39    |
| Total  | 0     | 1     | 7     | 10    | 13    | 15    | 9     | 1     | 56    |

Table 53

## Histological typing, by site

| Site   | Histology |    |    |     |     |    |    |     |     |    |     | Total |
|--------|-----------|----|----|-----|-----|----|----|-----|-----|----|-----|-------|
|        | sq        | as | ud | bsl | OEM | cd | MM | LMS | NHL | HL | OTH |       |
| V      | 0         | 0  | 0  | 0   | 0   | 1  | 0  | 0   | 0   | 0  | 1   | 2     |
| C      | 0         | 0  | 2  | 0   | 3   | 1  | 0  | 0   | 3   | 0  | 6   | 15    |
| A      | 0         | 0  | 2  | 0   | 1   | 0  | 0  | 0   | 1   | 1  | 7   | 12    |
| T      | 0         | 0  | 2  | 0   | 1   | 0  | 0  | 0   | 1   | 0  | 1   | 5     |
| D      | 0         | 0  | 0  | 0   | 0   | 0  | 0  | 0   | 0   | 0  | 1   | 1     |
| S      | 0         | 0  | 1  | 0   | 4   | 0  | 0  | 1   | 0   | 0  | 11  | 17    |
| Rs     | 0         | 0  | 0  | 0   | 1   | 1  | 0  | 0   | 1   | 0  | 1   | 4     |
| Ra     | 0         | 0  | 0  | 0   | 2   | 4  | 0  | 0   | 1   | 0  | 4   | 11    |
| Rb     | 6         | 1  | 2  | 0   | 0   | 10 | 2  | 0   | 0   | 0  | 13  | 34    |
| P      | 6         | 1  | 0  | 2   | 0   | 0  | 2  | 0   | 0   | 0  | 1   | 12    |
| Colon  | 0         | 0  | 7  | 0   | 9   | 2  | 0  | 1   | 5   | 1  | 27  | 52    |
| Rectum | 12        | 2  | 2  | 2   | 3   | 15 | 4  | 0   | 2   | 0  | 19  | 61    |
| Total  | 12        | 2  | 9  | 2   | 12  | 17 | 4  | 1   | 7   | 1  | 46  | 113   |

Table 54

## Modality of principal treatment

| Treatment    | Histology |    |    |     |     |    |    |     |     |    |     | Total |
|--------------|-----------|----|----|-----|-----|----|----|-----|-----|----|-----|-------|
|              | sq        | as | ud | bsl | OEM | cd | MM | LMS | NHL | HL | OTH |       |
| Surgery      | 12        | 2  | 9  | 2   | 10  | 17 | 4  | 1   | 7   | 1  | 46  | 111   |
| Chemotherapy | 0         | 0  | 0  | 0   | 1   | 0  | 0  | 0   | 0   | 0  | 0   | 1     |
| X            | 0         | 0  | 0  | 0   | 1   | 0  | 0  | 0   | 0   | 0  | 0   | 1     |
| Total        | 12        | 2  | 9  | 2   | 12  | 17 | 4  | 1   | 7   | 1  | 46  | 113   |

Table 55

## DI

| DI    | Histology |    |    |     |     |    |    |     |     |    |     | Total |
|-------|-----------|----|----|-----|-----|----|----|-----|-----|----|-----|-------|
|       | sq        | as | ud | bsl | OEM | cd | MM | LMS | NHL | HL | OTH |       |
| m     | 0         | 0  | 0  | 0   | 0   | 1  | 0  | 0   | 0   | 0  | 4   | 5     |
| sm    | 0         | 0  | 1  | 1   | 2   | 10 | 1  | 0   | 0   | 0  | 18  | 33    |
| mp    | 1         | 1  | 0  | 0   | 2   | 1  | 2  | 0   | 0   | 0  | 1   | 8     |
| ss/a1 | 4         | 1  | 3  | 1   | 5   | 3  | 1  | 1   | 0   | 1  | 7   | 27    |
| se/a2 | 3         | 0  | 3  | 0   | 1   | 1  | 0  | 0   | 3   | 0  | 6   | 17    |
| si/ai | 4         | 0  | 2  | 0   | 1   | 0  | 0  | 0   | 1   | 0  | 0   | 8     |
| X     | 0         | 0  | 0  | 0   | 1   | 1  | 0  | 0   | 3   | 0  | 10  | 15    |
| Total | 12        | 2  | 9  | 2   | 12  | 17 | 4  | 1   | 7   | 1  | 46  | 113   |

Table 56

## Lymph node metastasis, histological

| Lymph node | Histology |    |    |     |     |    |    |     |     |    |     | Total |
|------------|-----------|----|----|-----|-----|----|----|-----|-----|----|-----|-------|
|            | sq        | as | ud | bsl | OEM | cd | MM | LMS | NHL | HL | OTH |       |
| n0         | 6         | 1  | 2  | 1   | 5   | 12 | 0  | 1   | 0   | 0  | 28  | 56    |
| n1         | 2         | 1  | 3  | 0   | 2   | 3  | 3  | 0   | 1   | 1  | 4   | 20    |
| n2         | 1         | 0  | 4  | 1   | 2   | 0  | 0  | 0   | 1   | 0  | 5   | 14    |
| n3         | 0         | 0  | 0  | 0   | 1   | 0  | 0  | 0   | 1   | 0  | 0   | 2     |
| n4         | 3         | 0  | 0  | 0   | 1   | 1  | 1  | 0   | 2   | 0  | 2   | 10    |
| nX         | 0         | 0  | 0  | 0   | 1   | 1  | 0  | 0   | 2   | 0  | 7   | 11    |
| Total      | 12        | 2  | 9  | 2   | 12  | 17 | 4  | 1   | 7   | 1  | 46  | 113   |

Table 57

## Tumor size (mm)

| Size<br>(mm) | Histology |    |    |     |     |    |    |     |     |    |     | Total |
|--------------|-----------|----|----|-----|-----|----|----|-----|-----|----|-----|-------|
|              | sq        | as | ud | bsl | OEM | cd | MM | LMS | NHL | HL | OTH |       |
| <=20         | 2         | 0  | 0  | 0   | 1   | 10 | 1  | 0   | 0   | 0  | 20  | 34    |
| 21-40        | 1         | 1  | 1  | 1   | 3   | 1  | 0  | 1   | 1   | 0  | 9   | 19    |
| 41-60        | 1         | 0  | 1  | 0   | 5   | 1  | 1  | 0   | 0   | 1  | 4   | 14    |
| 61-80        | 3         | 0  | 3  | 0   | 0   | 0  | 2  | 0   | 0   | 0  | 4   | 12    |
| 81-100       | 2         | 0  | 3  | 0   | 0   | 0  | 0  | 0   | 0   | 0  | 0   | 5     |
| 101-         | 0         | 0  | 1  | 0   | 2   | 0  | 0  | 0   | 1   | 0  | 0   | 4     |
| X            | 3         | 1  | 0  | 1   | 1   | 5  | 0  | 0   | 5   | 0  | 9   | 25    |
| Total        | 12        | 2  | 9  | 2   | 12  | 17 | 4  | 1   | 7   | 1  | 46  | 113   |

Table 58

## Curability of surgical resection, histological

| Curability | Histology |    |    |     |     |    |    |     |     |    |     | Total |
|------------|-----------|----|----|-----|-----|----|----|-----|-----|----|-----|-------|
|            | sq        | as | ud | bsl | OEM | cd | MM | LMS | NHL | HL | OTH |       |
| cur A      | 7         | 2  | 3  | 1   | 8   | 14 | 4  | 1   | 2   | 0  | 37  | 79    |
| cur B      | 1         | 0  | 4  | 1   | 0   | 1  | 0  | 0   | 1   | 1  | 3   | 12    |
| cur C      | 4         | 0  | 2  | 0   | 4   | 1  | 0  | 0   | 1   | 0  | 3   | 15    |
| X          | 0         | 0  | 0  | 0   | 0   | 1  | 0  | 0   | 3   | 0  | 3   | 7     |
| Total      | 12        | 2  | 9  | 2   | 12  | 17 | 4  | 1   | 7   | 1  | 46  | 113   |



Table 59

## Histological typing, by site

| Site   | Histology |     | Total |
|--------|-----------|-----|-------|
|        | cd        | OTH |       |
| C      | 0         | 0   | 0     |
| A      | 0         | 2   | 2     |
| T      | 0         | 2   | 2     |
| D      | 0         | 0   | 0     |
| S      | 0         | 2   | 2     |
| Rs     | 1         | 2   | 3     |
| Ra     | 1         | 4   | 5     |
| Rb     | 5         | 1   | 6     |
| P      | 0         | 0   | 0     |
| Colon  | 0         | 6   | 6     |
| Rectum | 7         | 7   | 14    |
| Total  | 7         | 13  | 20    |

Table 60

## Endoscopic excision

| Excision    | Histology |     | Total |
|-------------|-----------|-----|-------|
|             | cd        | OTH |       |
| Complete    | 4         | 7   | 11    |
| Undecidable | 1         | 3   | 4     |
| X           | 2         | 3   | 5     |
| Total       | 7         | 13  | 20    |

Table 61

## DI

| DI    | Histology |     | Total |
|-------|-----------|-----|-------|
|       | cd        | OTH |       |
| m     | 1         | 1   | 2     |
| sm    | 4         | 9   | 13    |
| X     | 2         | 3   | 5     |
| Total | 7         | 13  | 20    |

Table 62

Cut end of the specimen, mucosal and submucosal

|       |   | DI    |    |   |   |   |       |
|-------|---|-------|----|---|---|---|-------|
|       |   | m     | sm |   | X |   |       |
|       |   | sm-ce |    |   |   |   |       |
| m-ce  |   | +     | X  | X | + | X | Total |
| -     | 0 | 2     | 2  | 0 | 1 | 0 | 5     |
| +     | 1 | 1     | 1  | 0 | 0 | 0 | 3     |
| X     | 1 | 1     | 3  | 3 | 0 | 4 | 12    |
| Total | 2 | 4     | 6  | 3 | 1 | 4 | 20    |

Table 63

Curability of endoscopic excision

| Site  | Histology |     | Total |
|-------|-----------|-----|-------|
|       | cd        | OTH |       |
| cur A | 4         | 9   | 13    |
| X     | 3         | 4   | 7     |
| Total | 7         | 13  | 20    |

## Selected data for survival analysis

Table 64

## Number of excluded cases for survival analysis

|  |    |
|--|----|
| Cases with the unknown current status                        | 66 |
| Missing for date of last contact for reportedly living cases | 11 |
| Missing for date of death for reportedly mortal cases        | 3  |
| Case with no surgical or endoscopic treatment                | 17 |
| Cases with 0 day for survival                                | 2  |
| Cases younger than 15  | 0  |
| Total  | 99 |

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

Table 65

## Death within 30 days after surgery

| Surgical curability | Death within 30 days | No.of surgeries | Percent |
|---------------------|----------------------|-----------------|---------|
| curA                | 12                   | 5,692           | 0.2%    |
| curB                | 1                    | 449             | 0.2%    |
| curC                | 10                   | 897             | 1.1%    |
| Unresect            | 2                    | 25              | 8.0%    |
| Unknown             | 3                    | 20              | 15.0%   |
| Missing             | 1                    | 329             | 0.3%    |
| Total               | 29                   | 7,412           | 0.4%    |

Table 66-1

## Age incidence

Male

| Site  | <20 | <30 | <40 | <50 | <60 | <70   | <80   | <90 | <100 | Total |
|-------|-----|-----|-----|-----|-----|-------|-------|-----|------|-------|
| V     | 1   | 0   | 1   | 1   | 0   | 3     | 3     | 0   | 0    | 9     |
| C     | 0   | 0   | 3   | 6   | 35  | 66    | 77    | 32  | 4    | 223   |
| A     | 0   | 2   | 9   | 19  | 72  | 157   | 196   | 82  | 6    | 543   |
| T     | 0   | 0   | 4   | 18  | 62  | 98    | 137   | 51  | 5    | 375   |
| D     | 0   | 0   | 1   | 12  | 29  | 63    | 59    | 16  | 1    | 181   |
| S     | 1   | 4   | 13  | 49  | 215 | 366   | 392   | 105 | 6    | 1,151 |
| Rs    | 0   | 1   | 8   | 27  | 134 | 198   | 152   | 45  | 3    | 568   |
| Ra    | 0   | 4   | 5   | 28  | 127 | 172   | 148   | 31  | 1    | 516   |
| Rb    | 0   | 6   | 19  | 41  | 151 | 268   | 172   | 33  | 4    | 694   |
| P     | 0   | 1   | 1   | 1   | 8   | 8     | 8     | 4   | 1    | 32    |
| Total | 2   | 18  | 64  | 202 | 833 | 1,399 | 1,344 | 399 | 31   | 4,292 |

Table 66-2

## Age incidence

Female

| Site  | <20 | <30 | <40 | <50 | <60 | <70 | <80 | <90 | <100 | Total |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| V     | 0   | 0   | 3   | 2   | 0   | 7   | 3   | 3   | 0    | 18    |
| C     | 0   | 1   | 3   | 5   | 36  | 85  | 124 | 67  | 6    | 327   |
| A     | 0   | 0   | 5   | 18  | 68  | 137 | 194 | 90  | 11   | 523   |
| T     | 0   | 0   | 4   | 16  | 43  | 79  | 114 | 43  | 2    | 301   |
| D     | 0   | 1   | 3   | 7   | 25  | 29  | 49  | 14  | 2    | 130   |
| S     | 0   | 3   | 19  | 53  | 194 | 216 | 217 | 65  | 12   | 779   |
| Rs    | 0   | 0   | 7   | 21  | 77  | 91  | 93  | 38  | 7    | 334   |
| Ra    | 0   | 1   | 11  | 17  | 70  | 104 | 84  | 19  | 4    | 310   |
| Rb    | 0   | 2   | 11  | 26  | 102 | 109 | 95  | 31  | 3    | 379   |
| P     | 0   | 0   | 2   | 1   | 3   | 7   | 3   | 3   | 0    | 19    |
| Total | 0   | 8   | 68  | 166 | 618 | 864 | 976 | 373 | 47   | 3,120 |

Table 67

## Modality of treatment

| Site  | Surgery only | Endoscopy only | Endoscopy followed by surgery | Total |
|-------|--------------|----------------|-------------------------------|-------|
| V     | 27           | 0              | 0                             | 27    |
| C     | 525          | 10             | 15                            | 550   |
| A     | 1,015        | 25             | 26                            | 1,066 |
| T     | 629          | 20             | 27                            | 676   |
| D     | 289          | 6              | 16                            | 311   |
| S     | 1,744        | 91             | 95                            | 1,930 |
| Rs    | 847          | 24             | 31                            | 902   |
| Ra    | 787          | 12             | 27                            | 826   |
| Rb    | 1,027        | 16             | 30                            | 1,073 |
| P     | 50           | 0              | 1                             | 51    |
| Total | 6,940        | 204            | 268                           | 7,412 |

Table 68

## Surgical curability (histologically determined) for surgical cases\*

| Site  | curA  | curB | curC | Unresect | Unknown | Missing | Total |
|-------|-------|------|------|----------|---------|---------|-------|
| V     | 20    | 1    | 6    | 0        | 0       | 0       | 27    |
| C     | 411   | 38   | 75   | 1        | 4       | 11      | 540   |
| A     | 816   | 63   | 147  | 2        | 1       | 12      | 1,041 |
| T     | 520   | 41   | 80   | 1        | 2       | 12      | 656   |
| D     | 240   | 15   | 39   | 0        | 1       | 10      | 305   |
| S     | 1,453 | 109  | 233  | 8        | 5       | 31      | 1,839 |
| Rs    | 685   | 69   | 98   | 3        | 1       | 22      | 878   |
| Ra    | 650   | 44   | 99   | 5        | 4       | 12      | 814   |
| Rb    | 851   | 67   | 117  | 4        | 2       | 16      | 1,057 |
| P     | 45    | 2    | 3    | 1        | 0       | 0       | 51    |
| Total | 5,691 | 449  | 897  | 25       | 20      | 126     | 7,208 |

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

Table 69

## Liver metastasis for surgical cases

| Site  | H0    | H1  | H2  | H3  | HX | Missing | Total |
|-------|-------|-----|-----|-----|----|---------|-------|
| V     | 23    | 0   | 0   | 2   | 1  | 1       | 27    |
| C     | 467   | 29  | 15  | 22  | 4  | 3       | 540   |
| A     | 925   | 38  | 18  | 53  | 2  | 5       | 1,041 |
| T     | 585   | 21  | 15  | 33  | 0  | 2       | 656   |
| D     | 268   | 9   | 7   | 19  | 0  | 2       | 305   |
| S     | 1,583 | 75  | 53  | 113 | 5  | 10      | 1,839 |
| Rs    | 783   | 30  | 14  | 45  | 1  | 5       | 878   |
| Ra    | 714   | 35  | 25  | 38  | 1  | 1       | 814   |
| Rb    | 966   | 38  | 23  | 19  | 4  | 7       | 1,057 |
| P     | 48    | 2   | 0   | 1   | 0  | 0       | 51    |
| Total | 6,362 | 277 | 170 | 345 | 18 | 36      | 7,208 |

Table 70

## Peritoneal metastasis for surgical cases

| Site  | P0    | P1  | P2 | P3 | HX | Missing | Total |
|-------|-------|-----|----|----|----|---------|-------|
| V     | 20    | 0   | 2  | 3  | 1  | 1       | 27    |
| C     | 489   | 20  | 11 | 14 | 3  | 3       | 540   |
| A     | 974   | 26  | 14 | 23 | 1  | 3       | 1,041 |
| T     | 618   | 11  | 9  | 16 | 1  | 1       | 656   |
| D     | 292   | 6   | 3  | 1  | 1  | 2       | 305   |
| S     | 1,752 | 40  | 19 | 19 | 4  | 5       | 1,839 |
| Rs    | 839   | 16  | 4  | 8  | 5  | 6       | 878   |
| Ra    | 791   | 14  | 3  | 2  | 2  | 2       | 814   |
| Rb    | 1,033 | 10  | 0  | 1  | 5  | 8       | 1,057 |
| P     | 50    | 1   | 0  | 0  | 0  | 0       | 51    |
| Total | 6,858 | 144 | 65 | 87 | 23 | 31      | 7,208 |

Table 71

## Lung metastasis for surgical cases

| Site  | LM0   | LM1 | LM2 | LM3 | LMX | Missing | Total |
|-------|-------|-----|-----|-----|-----|---------|-------|
| V     | 18    | 0   | 0   | 1   | 2   | 6       | 27    |
| C     | 454   | 8   | 3   | 3   | 5   | 67      | 540   |
| A     | 849   | 15  | 6   | 18  | 12  | 141     | 1,041 |
| T     | 527   | 4   | 2   | 11  | 7   | 105     | 656   |
| D     | 242   | 7   | 2   | 0   | 4   | 50      | 305   |
| S     | 1,480 | 27  | 8   | 16  | 17  | 291     | 1,839 |
| Rs    | 693   | 13  | 5   | 12  | 12  | 143     | 878   |
| Ra    | 643   | 13  | 4   | 10  | 7   | 137     | 814   |
| Rb    | 810   | 19  | 11  | 12  | 12  | 193     | 1,057 |
| P     | 28    | 0   | 0   | 0   | 0   | 23      | 51    |
| Total | 5,744 | 106 | 41  | 83  | 78  | 1,156   | 7,208 |

Table 72

## Distant metastasis for surgical cases

| Site  | M(-)  | M(+) | MX | Missing | Total |
|-------|-------|------|----|---------|-------|
| V     | 22    | 1    | 2  | 2       | 27    |
| C     | 510   | 14   | 3  | 13      | 540   |
| A     | 960   | 33   | 1  | 47      | 1,041 |
| T     | 613   | 15   | 6  | 22      | 656   |
| D     | 282   | 7    | 2  | 14      | 305   |
| S     | 1,706 | 34   | 8  | 91      | 1,839 |
| Rs    | 796   | 25   | 4  | 53      | 878   |
| Ra    | 768   | 16   | 2  | 28      | 814   |
| Rb    | 953   | 20   | 4  | 80      | 1,057 |
| P     | 31    | 0    | 0  | 20      | 51    |
| Total | 6,641 | 165  | 32 | 370     | 7,208 |



Table 73

## Macroscopic lymph node metastasis and depth of invasion

## Colon cancer for surgical cases

|         | M   | SM  | MP  | SS/A1 | SE/A2 | Si/AiUnknown | Missing | Total |
|---------|-----|-----|-----|-------|-------|--------------|---------|-------|
| N0      | 164 | 505 | 370 | 684   | 290   | 105          | 14      | 2,196 |
| N1      | 3   | 47  | 74  | 490   | 415   | 137          | 3       | 1,198 |
| N2      | 1   | 4   | 17  | 198   | 308   | 154          | 3       | 696   |
| N3      | 0   | 1   | 7   | 46    | 57    | 29           | 1       | 144   |
| N4      | 0   | 2   | 1   | 11    | 39    | 25           | 0       | 78    |
| NX      | 1   | 1   | 1   | 5     | 15    | 13           | 6       | 43    |
| Missing | 2   | 2   | 3   | 18    | 10    | 5            | 0       | 53    |
| Total   | 171 | 562 | 473 | 1,452 | 1,134 | 468          | 27      | 4,408 |

Table 74

## Macroscopic lymph node metastasis and depth of invasion

## Rectal cancer for surgical cases

|         | M  | SM  | MP  | SS/A1 | SE/A2 | Si/AiUnknown | Missing | Total |
|---------|----|-----|-----|-------|-------|--------------|---------|-------|
| N0      | 69 | 267 | 339 | 451   | 196   | 50           | 10      | 1,445 |
| N1      | 2  | 20  | 74  | 307   | 272   | 80           | 3       | 774   |
| N2      | 0  | 4   | 16  | 140   | 141   | 54           | 1       | 375   |
| N3      | 0  | 3   | 5   | 34    | 37    | 25           | 0       | 104   |
| N4      | 0  | 0   | 2   | 11    | 18    | 15           | 0       | 46    |
| NX      | 4  | 1   | 2   | 3     | 6     | 7            | 7       | 32    |
| Missing | 0  | 4   | 4   | 3     | 6     | 1            | 0       | 24    |
| Total   | 75 | 299 | 442 | 949   | 676   | 232          | 21      | 2,800 |

Table 75

## Microscopic lymph node metastasis and depth of invasion

## Colon cancer for surgical cases

|         | m   | sm  | mp  | ss/a1 | se/a2 | si/ai | Unknown | Missing | Total |
|---------|-----|-----|-----|-------|-------|-------|---------|---------|-------|
| n0      | 215 | 527 | 382 | 1,045 | 293   | 106   | 4       | 9       | 2,581 |
| n1      | 6   | 57  | 86  | 523   | 315   | 84    | 1       | 8       | 1,080 |
| n2      | 1   | 7   | 16  | 205   | 174   | 54    | 0       | 1       | 458   |
| n3      | 1   | 1   | 1   | 43    | 45    | 21    | 0       | 0       | 112   |
| n4      | 0   | 1   | 1   | 12    | 17    | 15    | 0       | 0       | 46    |
| nX      | 4   | 1   | 2   | 2     | 9     | 7     | 7       | 0       | 32    |
| Missing | 7   | 9   | 7   | 33    | 27    | 8     | 0       | 8       | 99    |
| Total   | 234 | 603 | 495 | 1,863 | 880   | 295   | 12      | 26      | 4,408 |

Table 76

## Microscopic lymph node metastasis and depth of invasion

## Rectal cancer for surgical cases

|         | m  | sm  | mp  | ss/a1 | se/a2 | si/ai | Unknown | Missing | Total |
|---------|----|-----|-----|-------|-------|-------|---------|---------|-------|
| n0      | 81 | 311 | 335 | 561   | 186   | 59    | 4       | 7       | 1,544 |
| n1      | 3  | 37  | 97  | 350   | 182   | 36    | 0       | 3       | 708   |
| n2      | 0  | 5   | 20  | 159   | 131   | 24    | 0       | 2       | 341   |
| n3      | 0  | 0   | 8   | 43    | 26    | 14    | 0       | 1       | 92    |
| n4      | 0  | 0   | 0   | 9     | 11    | 6     | 0       | 0       | 26    |
| nX      | 10 | 4   | 0   | 3     | 3     | 2     | 8       | 0       | 30    |
| Missing | 2  | 11  | 8   | 18    | 11    | 2     | 1       | 6       | 59    |
| Total   | 96 | 368 | 468 | 1,143 | 550   | 143   | 13      | 19      | 2,800 |

## Survival analysis

Table 77-1  
Sex  
Colon cancer, surgical cases

Males and females

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 4,408 | 246  | 240   | 94.3% | 0.3% | 93.6%  | 94.9% |
| 1-2  | 3,922 | 268  | 168   | 87.7% | 0.5% | 86.7%  | 88.7% |
| 2-3  | 3,486 | 208  | 137   | 82.3% | 0.6% | 81.2%  | 83.5% |
| 3-4  | 3,141 | 130  | 130   | 78.9% | 0.6% | 77.6%  | 80.1% |
| 4-5  | 2,881 | 94   | 307   | 76.1% | 0.7% | 74.8%  | 77.4% |
| 5-   | 2,480 | 154  | 2,326 |       |      |        |       |

Males

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 2,383 | 138  | 133   | 94.0% | 0.5% | 93.1%  | 95.0% |
| 1-2  | 2,112 | 144  | 84    | 87.5% | 0.7% | 86.2%  | 88.8% |
| 2-3  | 1,884 | 118  | 73    | 81.9% | 0.8% | 80.3%  | 83.5% |
| 3-4  | 1,693 | 67   | 74    | 78.6% | 0.9% | 76.9%  | 80.3% |
| 4-5  | 1,552 | 62   | 157   | 75.3% | 0.9% | 73.5%  | 77.1% |
| 5-   | 1,333 | 96   | 1,237 |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 1,773 | 90   | 71   | 94.8% | 0.5% | 93.8%  | 95.8% |
| 1-2  | 1,612 | 113  | 36   | 88.1% | 0.8% | 86.6%  | 89.6% |
| 2-3  | 1,463 | 98   | 53   | 82.1% | 0.9% | 80.3%  | 83.9% |
| 3-4  | 1,312 | 67   | 54   | 77.8% | 1.0% | 75.8%  | 79.8% |
| 4-5  | 1,191 | 62   | 113  | 73.6% | 1.1% | 71.5%  | 75.7% |
| 5-   | 1,016 | 74   | 942  |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 77-2

## Sex

## Colon cancer, treated by endoscopy alone

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 152   | 2    | 27   | 98.6% | 0.9% | 96.7%  | 100.4% |
| 1-2  | 123   | 1    | 8    | 97.7% | 1.2% | 95.3%  | 100.1% |
| 2-3  | 114   | 2    | 6    | 96.0% | 1.7% | 92.6%  | 99.3%  |
| 3-4  | 106   | 0    | 5    | 96.0% | 1.7% | 92.6%  | 99.3%  |
| 4-5  | 101   | 1    | 5    | 95.0% | 1.9% | 91.2%  | 98.8%  |
| 5-   | 95    | 6    | 89   |       |      |        |        |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 99    | 2    | 19   | 97.8% | 1.4% | 95.0%  | 100.5% |
| 1-2  | 78    | 1    | 4    | 96.5% | 1.9% | 92.8%  | 100.1% |
| 2-3  | 73    | 1    | 3    | 95.1% | 2.3% | 90.7%  | 99.6%  |
| 3-4  | 69    | 0    | 3    | 95.1% | 2.3% | 90.7%  | 99.6%  |
| 4-5  | 66    | 1    | 2    | 93.7% | 2.6% | 88.5%  | 98.9%  |
| 5-   | 63    | 4    | 59   |       |      |        |        |

## Females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 53    | 0    | 8    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 45    | 0    | 4    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 41    | 1    | 3    | 97.5%  | 2.4% | 92.8%  | 102.2% |
| 3-4  | 37    | 0    | 2    | 97.5%  | 2.4% | 92.8%  | 102.2% |
| 4-5  | 35    | 0    | 3    | 97.5%  | 2.4% | 92.8%  | 102.2% |
| 5-   | 32    | 2    | 30   |        |      |        |        |

Table 78-1

## Sex

## Rectal cancer, surgical cases

## Males and females

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 2,800 | 137  | 111   | 95.0% | 0.4% | 94.2%  | 95.8% |
| 1-2  | 2,552 | 163  | 76    | 88.8% | 0.6% | 87.7%  | 90.0% |
| 2-3  | 2,313 | 135  | 72    | 83.6% | 0.7% | 82.2%  | 85.0% |
| 3-4  | 2,106 | 109  | 83    | 79.2% | 0.8% | 77.6%  | 80.7% |
| 4-5  | 1,914 | 92   | 191   | 75.2% | 0.8% | 73.5%  | 76.8% |
| 5-   | 1,631 | 98   | 1,533 |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 1,773 | 90   | 71   | 94.8% | 0.5% | 93.8%  | 95.8% |
| 1-2  | 1,612 | 113  | 36   | 88.1% | 0.8% | 86.6%  | 89.6% |
| 2-3  | 1,463 | 98   | 53   | 82.1% | 0.9% | 80.3%  | 83.9% |
| 3-4  | 1,312 | 67   | 54   | 77.8% | 1.0% | 75.8%  | 79.8% |
| 4-5  | 1,191 | 62   | 113  | 73.6% | 1.1% | 71.5%  | 75.7% |
| 5-   | 1,016 | 74   | 942  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 1,027 | 47   | 40   | 95.3% | 0.7% | 94.1%  | 96.6% |
| 1-2  | 940   | 50   | 40   | 90.2% | 0.9% | 88.3%  | 92.0% |
| 2-3  | 850   | 37   | 19   | 86.2% | 1.1% | 84.0%  | 88.3% |
| 3-4  | 794   | 42   | 29   | 81.5% | 1.2% | 79.1%  | 84.0% |
| 4-5  | 723   | 30   | 78   | 78.0% | 1.3% | 75.4%  | 80.6% |
| 5-   | 615   | 24   | 591  |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 78-2

Sex

Rectal cancer, treated by endoscopy alone

Males and females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 52    | 0    | 5    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 47    | 1    | 6    | 97.7%  | 2.1% | 93.6%  | 101.8% |
| 2-3  | 40    | 0    | 2    | 97.7%  | 2.1% | 93.6%  | 101.8% |
| 3-4  | 38    | 1    | 8    | 94.9%  | 3.2% | 88.5%  | 101.2% |
| 4-5  | 29    | 1    | 2    | 91.5%  | 4.5% | 82.7%  | 100.3% |
| 5-   | 26    | 1    | 25   |        |      |        |        |

Males

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 37    | 0    | 3    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 34    | 1    | 3    | 96.9%  | 2.9% | 91.3%  | 102.6% |
| 2-3  | 30    | 0    | 1    | 96.9%  | 2.9% | 91.3%  | 102.6% |
| 3-4  | 29    | 1    | 7    | 93.1%  | 4.3% | 84.7%  | 101.5% |
| 4-5  | 21    | 0    | 1    | 93.1%  | 4.3% | 84.7%  | 101.5% |
| 5-   | 20    | 1    | 19   |        |      |        |        |

Females

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 15    | 0    | 2    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 13    | 0    | 3    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 2-3  | 10    | 0    | 1    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 3-4  | 9     | 0    | 1    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 4-5  | 8     | 1    | 1    | 86.7%  | 11.6% | 64.0%  | 109.4% |
| 5-   | 6     | 0    | 6    |        |       |        |        |

Table 79-1  
Clinical stage  
Colon cancer, surgical cases

Clinical stage 0

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 173   | 2    | 14   | 98.8% | 0.8% | 97.2%  | 100.4% |
| 1-2  | 157   | 0    | 8    | 98.8% | 0.8% | 97.2%  | 100.4% |
| 2-3  | 149   | 2    | 8    | 97.4% | 1.2% | 95.0%  | 99.8%  |
| 3-4  | 139   | 2    | 13   | 96.0% | 1.6% | 92.9%  | 99.0%  |
| 4-5  | 124   | 2    | 19   | 94.3% | 1.9% | 90.6%  | 98.0%  |
| 5-   | 103   | 6    | 97   |       |      |        |        |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 108   | 2    | 6    | 98.1% | 1.3% | 95.6%  | 100.6% |
| 1-2  | 100   | 0    | 3    | 98.1% | 1.3% | 95.6%  | 100.6% |
| 2-3  | 97    | 1    | 3    | 97.1% | 1.6% | 93.9%  | 100.3% |
| 3-4  | 93    | 0    | 12   | 97.1% | 1.6% | 93.9%  | 100.3% |
| 4-5  | 81    | 2    | 11   | 94.5% | 2.3% | 90.0%  | 99.0%  |
| 5-   | 68    | 6    | 62   |       |      |        |        |

Females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 65    | 0    | 8    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 57    | 0    | 5    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 52    | 1    | 5    | 98.0%  | 1.9% | 94.3%  | 101.7% |
| 3-4  | 46    | 2    | 1    | 93.7%  | 3.5% | 86.9%  | 100.5% |
| 4-5  | 43    | 0    | 8    | 93.7%  | 3.5% | 86.9%  | 100.5% |
| 5-   | 35    | 0    | 35   |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



Table 79-2

## Clinical stage I

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 876   | 10   | 43   | 98.8% | 0.4% | 98.1%  | 99.5% |
| 1-2  | 823   | 17   | 34   | 96.7% | 0.6% | 95.6%  | 97.9% |
| 2-3  | 772   | 14   | 32   | 95.0% | 0.8% | 93.5%  | 96.4% |
| 3-4  | 726   | 10   | 26   | 93.6% | 0.8% | 92.0%  | 95.3% |
| 4-5  | 690   | 16   | 81   | 91.3% | 1.0% | 89.4%  | 93.2% |
| 5-   | 593   | 20   | 573  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 523   | 7    | 30   | 98.6% | 0.5% | 97.6%  | 99.6% |
| 1-2  | 486   | 13   | 21   | 95.9% | 0.9% | 94.2%  | 97.6% |
| 2-3  | 452   | 9    | 20   | 94.0% | 1.1% | 91.9%  | 96.1% |
| 3-4  | 423   | 7    | 12   | 92.4% | 1.2% | 90.1%  | 94.7% |
| 4-5  | 404   | 10   | 41   | 90.0% | 1.4% | 87.3%  | 92.7% |
| 5-   | 353   | 14   | 339  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 353   | 3    | 13   | 99.1% | 0.5% | 98.2%  | 100.1% |
| 1-2  | 337   | 4    | 13   | 97.9% | 0.8% | 96.4%  | 99.4%  |
| 2-3  | 320   | 5    | 12   | 96.4% | 1.0% | 94.4%  | 98.4%  |
| 3-4  | 303   | 3    | 14   | 95.4% | 1.1% | 93.2%  | 97.6%  |
| 4-5  | 286   | 6    | 40   | 93.2% | 1.4% | 90.6%  | 95.9%  |
| 5-   | 240   | 6    | 234  |       |      |        |        |

Table 79-3  
Clinical stage  
Colon cancer, surgical cases

Clinical stage II

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 913   | 15   | 44   | 98.3% | 0.4% | 97.5%  | 99.1% |
| 1-2  | 854   | 36   | 28   | 94.1% | 0.8% | 92.6%  | 95.6% |
| 2-3  | 790   | 26   | 25   | 91.0% | 1.0% | 89.1%  | 92.9% |
| 3-4  | 739   | 25   | 29   | 87.8% | 1.1% | 85.6%  | 90.0% |
| 4-5  | 685   | 20   | 58   | 85.1% | 1.2% | 82.8%  | 87.5% |
| 5-   | 607   | 28   | 579  |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 509   | 11   | 25   | 97.8% | 0.6% | 96.5%  | 99.0% |
| 1-2  | 473   | 24   | 12   | 92.8% | 1.2% | 90.5%  | 95.0% |
| 2-3  | 437   | 15   | 14   | 89.5% | 1.4% | 86.8%  | 92.2% |
| 3-4  | 408   | 12   | 16   | 86.8% | 1.5% | 83.8%  | 89.8% |
| 4-5  | 380   | 14   | 31   | 83.5% | 1.7% | 80.2%  | 86.8% |
| 5-   | 335   | 20   | 315  |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 404   | 4    | 19   | 99.0% | 0.5% | 98.0%  | 100.0% |
| 1-2  | 381   | 12   | 16   | 95.8% | 1.0% | 93.8%  | 97.8%  |
| 2-3  | 353   | 11   | 11   | 92.8% | 1.3% | 90.2%  | 95.3%  |
| 3-4  | 331   | 13   | 13   | 89.1% | 1.6% | 85.9%  | 92.2%  |
| 4-5  | 305   | 6    | 27   | 87.2% | 1.7% | 83.8%  | 90.6%  |
| 5-   | 272   | 8    | 264  |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 79-4

## Clinical stage IIIa

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 1,080 | 32   | 51   | 97.0% | 0.5% | 96.0%  | 98.0% |
| 1-2  | 997   | 45   | 36   | 92.5% | 0.8% | 90.9%  | 94.1% |
| 2-3  | 916   | 45   | 33   | 87.9% | 1.0% | 85.9%  | 89.9% |
| 3-4  | 838   | 35   | 39   | 84.1% | 1.1% | 81.9%  | 86.4% |
| 4-5  | 764   | 19   | 101  | 81.9% | 1.2% | 79.5%  | 84.2% |
| 5-   | 644   | 42   | 602  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 561   | 20   | 32   | 96.3% | 0.8% | 94.8%  | 97.9% |
| 1-2  | 509   | 28   | 15   | 91.0% | 1.2% | 88.6%  | 93.3% |
| 2-3  | 466   | 29   | 20   | 85.2% | 1.5% | 82.2%  | 88.2% |
| 3-4  | 417   | 18   | 21   | 81.4% | 1.7% | 78.1%  | 84.7% |
| 4-5  | 378   | 11   | 47   | 78.9% | 1.8% | 75.4%  | 82.4% |
| 5-   | 320   | 25   | 295  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 519   | 12   | 19   | 97.6% | 0.7% | 96.4%  | 98.9% |
| 1-2  | 488   | 17   | 21   | 94.2% | 1.0% | 92.2%  | 96.2% |
| 2-3  | 450   | 16   | 13   | 90.8% | 1.3% | 88.2%  | 93.3% |
| 3-4  | 421   | 17   | 18   | 87.0% | 1.5% | 84.1%  | 90.0% |
| 4-5  | 386   | 8    | 54   | 85.1% | 1.6% | 81.9%  | 88.2% |
| 5-   | 324   | 17   | 307  |       |      |        |       |

Table 79-5  
Clinical stage  
Colon cancer, surgical cases

Clinical stage IIIb

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 554   | 25   | 21   | 95.4% | 0.9% | 93.7%  | 97.1% |
| 1-2  | 508   | 31   | 20   | 89.5% | 1.3% | 86.9%  | 92.0% |
| 2-3  | 457   | 31   | 15   | 83.3% | 1.6% | 80.1%  | 86.4% |
| 3-4  | 411   | 16   | 8    | 80.0% | 1.7% | 76.6%  | 83.4% |
| 4-5  | 387   | 17   | 32   | 76.4% | 1.9% | 72.7%  | 80.0% |
| 5-   | 338   | 27   | 311  |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 267   | 7    | 5    | 97.4% | 1.0% | 95.4%  | 99.3% |
| 1-2  | 255   | 10   | 13   | 93.4% | 1.5% | 90.5%  | 96.4% |
| 2-3  | 232   | 22   | 10   | 84.4% | 2.3% | 80.0%  | 88.8% |
| 3-4  | 200   | 8    | 4    | 81.0% | 2.5% | 76.2%  | 85.8% |
| 4-5  | 188   | 11   | 17   | 76.0% | 2.7% | 70.7%  | 81.3% |
| 5-   | 160   | 13   | 147  |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 287   | 18   | 16   | 93.5% | 1.4% | 90.7%  | 96.3% |
| 1-2  | 253   | 21   | 7    | 85.7% | 2.1% | 81.6%  | 89.8% |
| 2-3  | 225   | 9    | 5    | 82.2% | 2.3% | 77.7%  | 86.7% |
| 3-4  | 211   | 8    | 4    | 79.1% | 2.5% | 74.3%  | 83.9% |
| 4-5  | 199   | 6    | 15   | 76.6% | 2.6% | 71.6%  | 81.6% |
| 5-   | 178   | 14   | 164  |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 79-6

## Clinical stage IV

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 727   | 160  | 64   | 77.0% | 1.5% | 74.0%  | 80.0% |
| 1-2  | 503   | 138  | 35   | 55.1% | 1.9% | 51.5%  | 58.7% |
| 2-3  | 330   | 87   | 20   | 40.1% | 1.9% | 36.4%  | 43.8% |
| 3-4  | 223   | 42   | 12   | 32.4% | 1.8% | 28.7%  | 36.0% |
| 4-5  | 169   | 20   | 10   | 28.4% | 1.8% | 24.9%  | 32.0% |
| 5-   | 139   | 29   | 110  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 365   | 89   | 34   | 74.4% | 2.2% | 70.1%  | 78.8% |
| 1-2  | 242   | 68   | 15   | 52.8% | 2.6% | 47.7%  | 58.0% |
| 2-3  | 159   | 41   | 5    | 39.0% | 2.7% | 33.8%  | 44.2% |
| 3-4  | 113   | 22   | 6    | 31.2% | 2.6% | 26.1%  | 36.3% |
| 4-5  | 85    | 14   | 6    | 25.9% | 2.5% | 21.0%  | 30.7% |
| 5-   | 65    | 16   | 49   |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 362   | 71   | 30   | 79.5% | 2.1% | 75.5%  | 83.6% |
| 1-2  | 261   | 70   | 20   | 57.4% | 2.6% | 52.2%  | 62.5% |
| 2-3  | 171   | 46   | 15   | 41.2% | 2.7% | 36.0%  | 46.5% |
| 3-4  | 110   | 20   | 6    | 33.5% | 2.6% | 28.3%  | 38.7% |
| 4-5  | 84    | 6    | 4    | 31.1% | 2.6% | 25.9%  | 36.2% |
| 5-   | 74    | 13   | 61   |       |      |        |       |

Table 80-1  
Clinical stage  
Rectal cancer, surgical cases

Clinical stage 0

Males and females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 79    | 0    | 9    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 70    | 0    | 2    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 68    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 3-4  | 68    | 1    | 4    | 98.5%  | 1.5% | 95.6%  | 101.3% |
| 4-5  | 63    | 2    | 7    | 95.2%  | 2.6% | 90.1%  | 100.2% |
| 5-   | 54    | 2    | 52   |        |      |        |        |

Males

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 41    | 0    | 3    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 38    | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 37    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 3-4  | 37    | 1    | 4    | 97.1%  | 2.7% | 91.9%  | 102.4% |
| 4-5  | 32    | 1    | 3    | 94.0%  | 3.9% | 86.2%  | 101.7% |
| 5-   | 28    | 1    | 27   |        |      |        |        |

Females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 38    | 0    | 6    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 32    | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 31    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 3-4  | 31    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 4-5  | 31    | 1    | 4    | 96.6%  | 3.2% | 90.3%  | 102.8% |
| 5-   | 26    | 1    | 25   |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 80-2

## Clinical stage I

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 611   | 6    | 24   | 99.0% | 0.4% | 98.2%  | 99.8% |
| 1-2  | 581   | 8    | 20   | 97.6% | 0.6% | 96.4%  | 98.8% |
| 2-3  | 553   | 11   | 19   | 95.6% | 0.8% | 94.0%  | 97.3% |
| 3-4  | 523   | 12   | 20   | 93.4% | 1.0% | 91.4%  | 95.4% |
| 4-5  | 491   | 8    | 52   | 91.8% | 1.1% | 89.5%  | 94.0% |
| 5-   | 431   | 14   | 417  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 386   | 5    | 15   | 98.7% | 0.6% | 97.6%  | 99.8% |
| 1-2  | 366   | 7    | 4    | 96.8% | 0.9% | 95.0%  | 98.6% |
| 2-3  | 355   | 7    | 13   | 94.8% | 1.1% | 92.6%  | 97.1% |
| 3-4  | 335   | 6    | 11   | 93.1% | 1.3% | 90.5%  | 95.7% |
| 4-5  | 318   | 5    | 31   | 91.6% | 1.4% | 88.7%  | 94.4% |
| 5-   | 282   | 13   | 269  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 225   | 1    | 9    | 99.5% | 0.4% | 98.7%  | 100.4% |
| 1-2  | 215   | 1    | 16   | 99.1% | 0.6% | 97.8%  | 100.3% |
| 2-3  | 198   | 4    | 6    | 97.0% | 1.2% | 94.7%  | 99.3%  |
| 3-4  | 188   | 6    | 9    | 93.9% | 1.7% | 90.6%  | 97.2%  |
| 4-5  | 173   | 3    | 21   | 92.1% | 1.9% | 88.4%  | 95.8%  |
| 5-   | 149   | 1    | 148  |       |      |        |        |

Table 80-3  
Clinical stage  
Rectal cancer, surgical cases

Clinical stage II

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 622   | 13   | 27   | 97.9% | 0.6% | 96.7%  | 99.0% |
| 1-2  | 582   | 11   | 7    | 96.0% | 0.8% | 94.5%  | 97.5% |
| 2-3  | 564   | 20   | 18   | 92.5% | 1.1% | 90.5%  | 94.6% |
| 3-4  | 526   | 15   | 16   | 89.9% | 1.2% | 87.4%  | 92.3% |
| 4-5  | 495   | 20   | 46   | 86.1% | 1.4% | 83.3%  | 88.8% |
| 5-   | 429   | 26   | 403  |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 402   | 12   | 14   | 97.0% | 0.8% | 95.3%  | 98.6% |
| 1-2  | 376   | 10   | 5    | 94.4% | 1.2% | 92.1%  | 96.6% |
| 2-3  | 361   | 16   | 12   | 90.1% | 1.5% | 87.2%  | 93.1% |
| 3-4  | 333   | 12   | 10   | 86.8% | 1.7% | 83.5%  | 90.2% |
| 4-5  | 311   | 15   | 28   | 82.4% | 1.9% | 78.6%  | 86.2% |
| 5-   | 268   | 17   | 251  |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 220   | 1    | 13   | 99.5% | 0.5% | 98.6%  | 100.4% |
| 1-2  | 206   | 1    | 2    | 99.0% | 0.7% | 97.8%  | 100.3% |
| 2-3  | 203   | 4    | 6    | 97.1% | 1.2% | 94.8%  | 99.3%  |
| 3-4  | 193   | 3    | 6    | 95.5% | 1.4% | 92.7%  | 98.3%  |
| 4-5  | 184   | 5    | 18   | 92.8% | 1.8% | 89.3%  | 96.3%  |
| 5-   | 161   | 9    | 152  |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



Table 80-4

## Clinical stage IIIa

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 703   | 19   | 26   | 97.2% | 0.6% | 96.0%  | 98.4% |
| 1-2  | 658   | 35   | 16   | 92.0% | 1.0% | 90.0%  | 94.0% |
| 2-3  | 607   | 33   | 14   | 86.9% | 1.3% | 84.4%  | 89.5% |
| 3-4  | 560   | 34   | 22   | 81.6% | 1.5% | 78.6%  | 84.5% |
| 4-5  | 504   | 28   | 49   | 76.8% | 1.6% | 73.6%  | 80.0% |
| 5-   | 427   | 23   | 404  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 449   | 13   | 21   | 97.0% | 0.8% | 95.5%  | 98.6% |
| 1-2  | 415   | 27   | 7    | 90.7% | 1.4% | 87.9%  | 93.4% |
| 2-3  | 381   | 23   | 11   | 85.1% | 1.7% | 81.8%  | 88.5% |
| 3-4  | 347   | 17   | 18   | 80.8% | 1.9% | 77.1%  | 84.6% |
| 4-5  | 312   | 22   | 30   | 74.8% | 2.1% | 70.7%  | 79.0% |
| 5-   | 260   | 17   | 243  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 254   | 6    | 5    | 97.6% | 1.0% | 95.7%  | 99.5% |
| 1-2  | 243   | 8    | 9    | 94.3% | 1.4% | 91.5%  | 97.2% |
| 2-3  | 226   | 10   | 3    | 90.1% | 1.9% | 86.4%  | 93.8% |
| 3-4  | 213   | 17   | 4    | 82.9% | 2.4% | 78.1%  | 87.6% |
| 4-5  | 192   | 6    | 19   | 80.2% | 2.6% | 75.1%  | 85.2% |
| 5-   | 167   | 6    | 161  |       |      |        |       |

Table 80-5  
Clinical stage  
Rectal cancer, surgical cases

Clinical stage IIb

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 354   | 24   | 7    | 93.2% | 1.3% | 90.5%  | 95.8% |
| 1-2  | 323   | 28   | 9    | 85.0% | 1.9% | 81.2%  | 88.7% |
| 2-3  | 286   | 28   | 9    | 76.5% | 2.3% | 72.1%  | 81.0% |
| 3-4  | 249   | 21   | 12   | 69.9% | 2.5% | 65.1%  | 74.7% |
| 4-5  | 216   | 19   | 23   | 63.4% | 2.6% | 58.3%  | 68.5% |
| 5-   | 174   | 17   | 157  |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 227   | 16   | 5    | 92.9% | 1.7% | 89.5%  | 96.2% |
| 1-2  | 206   | 20   | 5    | 83.7% | 2.5% | 78.9%  | 88.5% |
| 2-3  | 181   | 22   | 7    | 73.4% | 3.0% | 67.6%  | 79.2% |
| 3-4  | 152   | 14   | 7    | 66.4% | 3.2% | 60.2%  | 72.7% |
| 4-5  | 131   | 11   | 14   | 60.6% | 3.3% | 54.1%  | 67.0% |
| 5-   | 106   | 14   | 92   |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 127   | 8    | 2    | 93.7% | 2.2% | 89.4%  | 97.9% |
| 1-2  | 117   | 8    | 4    | 87.1% | 3.0% | 81.3%  | 92.9% |
| 2-3  | 105   | 6    | 2    | 82.1% | 3.4% | 75.4%  | 88.8% |
| 3-4  | 97    | 7    | 5    | 76.0% | 3.8% | 68.5%  | 83.5% |
| 4-5  | 85    | 8    | 9    | 68.5% | 4.2% | 60.2%  | 76.7% |
| 5-   | 68    | 3    | 65   |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 80-6

## Clinical stage IV

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 359   | 73   | 18   | 79.1% | 2.1% | 75.0%  | 83.3% |
| 1-2  | 268   | 76   | 16   | 56.0% | 2.6% | 50.9%  | 61.1% |
| 2-3  | 176   | 43   | 7    | 42.0% | 2.7% | 36.8%  | 47.3% |
| 3-4  | 126   | 25   | 7    | 33.5% | 2.6% | 28.4%  | 38.5% |
| 4-5  | 94    | 14   | 8    | 28.3% | 2.5% | 23.4%  | 33.2% |
| 5-   | 72    | 14   | 58   |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 226   | 44   | 13   | 80.0% | 2.6% | 74.8%  | 85.1% |
| 1-2  | 169   | 46   | 10   | 57.5% | 3.3% | 51.1%  | 64.0% |
| 2-3  | 113   | 30   | 6    | 41.8% | 3.4% | 35.2%  | 48.4% |
| 3-4  | 77    | 16   | 4    | 32.9% | 3.3% | 26.5%  | 39.3% |
| 4-5  | 57    | 8    | 5    | 28.1% | 3.2% | 21.9%  | 34.3% |
| 5-   | 44    | 10   | 34   |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 133   | 29   | 5    | 77.8% | 3.6% | 70.8%  | 84.8% |
| 1-2  | 99    | 30   | 6    | 53.5% | 4.3% | 45.0%  | 61.9% |
| 2-3  | 63    | 13   | 1    | 42.4% | 4.4% | 33.8%  | 50.9% |
| 3-4  | 49    | 9    | 3    | 34.3% | 4.2% | 26.0%  | 42.6% |
| 4-5  | 37    | 6    | 3    | 28.5% | 4.1% | 20.5%  | 36.5% |
| 5-   | 28    | 4    | 24   |       |      |        |       |

Table 81-1  
Histological stage  
Colon cancer, surgical cases

Histological stage 0

Males and females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 216   | 0    | 12   | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 204   | 3    | 12   | 98.5%  | 0.8% | 96.8%  | 100.1% |
| 2-3  | 189   | 4    | 11   | 96.3%  | 1.3% | 93.8%  | 98.9%  |
| 3-4  | 174   | 2    | 11   | 95.2%  | 1.5% | 92.2%  | 98.2%  |
| 4-5  | 161   | 2    | 24   | 93.9%  | 1.7% | 90.6%  | 97.3%  |
| 5-   | 135   | 7    | 128  |        |      |        |        |

Males

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 129   | 0    | 5    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 124   | 2    | 7    | 98.3%  | 1.1% | 96.1%  | 100.6% |
| 2-3  | 115   | 1    | 5    | 97.5%  | 1.4% | 94.7%  | 100.2% |
| 3-4  | 109   | 0    | 8    | 97.5%  | 1.4% | 94.7%  | 100.2% |
| 4-5  | 101   | 2    | 16   | 95.4%  | 1.9% | 91.6%  | 99.1%  |
| 5-   | 83    | 6    | 77   |        |      |        |        |

Females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 87    | 0    | 7    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 80    | 1    | 5    | 98.7%  | 1.2% | 96.3%  | 101.1% |
| 2-3  | 74    | 3    | 6    | 94.5%  | 2.6% | 89.5%  | 99.5%  |
| 3-4  | 65    | 2    | 3    | 91.6%  | 3.2% | 85.3%  | 97.8%  |
| 4-5  | 60    | 0    | 8    | 91.6%  | 3.2% | 85.3%  | 97.8%  |
| 5-   | 52    | 1    | 51   |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 81-2

## Histological stage I

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 922   | 12   | 47   | 98.7% | 0.4% | 97.9%  | 99.4% |
| 1-2  | 863   | 12   | 33   | 97.3% | 0.5% | 96.2%  | 98.3% |
| 2-3  | 818   | 13   | 28   | 95.7% | 0.7% | 94.4%  | 97.0% |
| 3-4  | 777   | 11   | 34   | 94.3% | 0.8% | 92.8%  | 95.8% |
| 4-5  | 732   | 14   | 86   | 92.4% | 0.9% | 90.6%  | 94.2% |
| 5-   | 632   | 22   | 610  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 538   | 10   | 32   | 98.1% | 0.6% | 96.9%  | 99.2% |
| 1-2  | 496   | 10   | 22   | 96.1% | 0.8% | 94.4%  | 97.7% |
| 2-3  | 464   | 7    | 16   | 94.6% | 1.0% | 92.6%  | 96.5% |
| 3-4  | 441   | 7    | 20   | 93.1% | 1.1% | 90.8%  | 95.3% |
| 4-5  | 414   | 10   | 42   | 90.7% | 1.3% | 88.1%  | 93.2% |
| 5-   | 362   | 15   | 347  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 384   | 2    | 15   | 99.5% | 0.4% | 98.7%  | 100.2% |
| 1-2  | 367   | 2    | 11   | 98.9% | 0.5% | 97.9%  | 100.0% |
| 2-3  | 354   | 6    | 12   | 97.2% | 0.9% | 95.5%  | 98.9%  |
| 3-4  | 336   | 4    | 14   | 96.0% | 1.0% | 94.0%  | 98.0%  |
| 4-5  | 318   | 4    | 44   | 94.7% | 1.2% | 92.4%  | 97.0%  |
| 5-   | 270   | 7    | 263  |       |      |        |        |

Table 81-3  
Histological stage  
Colon cancer, surgical cases

Histological stage II

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 1,266 | 16   | 65   | 98.7% | 0.3% | 98.1%  | 99.3% |
| 1-2  | 1,185 | 50   | 44   | 94.5% | 0.6% | 93.2%  | 95.7% |
| 2-3  | 1,091 | 37   | 43   | 91.2% | 0.8% | 89.6%  | 92.8% |
| 3-4  | 1,011 | 30   | 38   | 88.4% | 0.9% | 86.6%  | 90.2% |
| 4-5  | 943   | 24   | 82   | 86.1% | 1.0% | 84.1%  | 88.1% |
| 5-   | 837   | 36   | 801  |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 708   | 13   | 35   | 98.1% | 0.5% | 97.1%  | 99.1% |
| 1-2  | 660   | 29   | 19   | 93.7% | 0.9% | 91.9%  | 95.5% |
| 2-3  | 612   | 24   | 26   | 90.0% | 1.1% | 87.7%  | 92.2% |
| 3-4  | 562   | 17   | 21   | 87.2% | 1.3% | 84.7%  | 89.7% |
| 4-5  | 524   | 15   | 48   | 84.6% | 1.4% | 81.8%  | 87.3% |
| 5-   | 461   | 25   | 436  |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 558   | 3    | 30   | 99.4% | 0.3% | 98.8%  | 100.1% |
| 1-2  | 525   | 21   | 25   | 95.4% | 0.9% | 93.6%  | 97.1%  |
| 2-3  | 479   | 13   | 17   | 92.7% | 1.1% | 90.5%  | 94.9%  |
| 3-4  | 449   | 13   | 17   | 90.0% | 1.3% | 87.4%  | 92.6%  |
| 4-5  | 419   | 9    | 34   | 88.0% | 1.4% | 85.2%  | 90.8%  |
| 5-   | 376   | 11   | 365  |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 81-4

## Histological stage IIIa

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 923   | 34   | 35   | 96.2% | 0.6% | 95.0%  | 97.5% |
| 1-2  | 854   | 34   | 35   | 92.3% | 0.9% | 90.6%  | 94.0% |
| 2-3  | 785   | 43   | 27   | 87.2% | 1.1% | 85.0%  | 89.4% |
| 3-4  | 715   | 30   | 29   | 83.5% | 1.3% | 81.0%  | 85.9% |
| 4-5  | 656   | 17   | 83   | 81.1% | 1.3% | 78.6%  | 83.7% |
| 5-   | 556   | 40   | 516  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 470   | 19   | 21   | 95.9% | 0.9% | 94.1%  | 97.6% |
| 1-2  | 430   | 22   | 16   | 90.9% | 1.3% | 88.3%  | 93.5% |
| 2-3  | 392   | 28   | 18   | 84.2% | 1.7% | 80.9%  | 87.6% |
| 3-4  | 346   | 14   | 15   | 80.7% | 1.9% | 77.1%  | 84.4% |
| 4-5  | 317   | 9    | 36   | 78.3% | 2.0% | 74.5%  | 82.1% |
| 5-   | 272   | 24   | 248  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 453   | 15   | 14   | 96.6% | 0.8% | 95.0%  | 98.3% |
| 1-2  | 424   | 12   | 19   | 93.8% | 1.1% | 91.6%  | 96.0% |
| 2-3  | 393   | 15   | 9    | 90.2% | 1.4% | 87.4%  | 93.0% |
| 3-4  | 369   | 16   | 14   | 86.2% | 1.7% | 83.0%  | 89.5% |
| 4-5  | 339   | 8    | 47   | 84.0% | 1.8% | 80.6%  | 87.5% |
| 5-   | 284   | 16   | 268  |       |      |        |       |

Table 81-5  
Histological stage  
Colon cancer, surgical cases

Histological stage IIIb

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 345   | 23   | 15   | 93.2% | 1.3% | 90.6%  | 95.8% |
| 1-2  | 307   | 33   | 9    | 83.0% | 2.0% | 79.0%  | 87.0% |
| 2-3  | 265   | 25   | 5    | 75.1% | 2.4% | 70.5%  | 79.8% |
| 3-4  | 235   | 16   | 7    | 69.9% | 2.5% | 65.0%  | 74.9% |
| 4-5  | 212   | 16   | 22   | 64.4% | 2.6% | 59.2%  | 69.5% |
| 5-   | 174   | 18   | 156  |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 166   | 6    | 6    | 96.3% | 1.4% | 93.5%  | 99.2% |
| 1-2  | 154   | 13   | 5    | 88.1% | 2.5% | 83.1%  | 93.0% |
| 2-3  | 136   | 17   | 2    | 77.0% | 3.3% | 70.4%  | 83.5% |
| 3-4  | 117   | 7    | 4    | 72.3% | 3.6% | 65.3%  | 79.2% |
| 4-5  | 106   | 12   | 9    | 63.7% | 3.8% | 56.2%  | 71.3% |
| 5-   | 85    | 9    | 76   |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 179   | 17   | 9    | 90.3% | 2.2% | 86.0%  | 94.5% |
| 1-2  | 153   | 20   | 4    | 78.3% | 3.1% | 72.2%  | 84.4% |
| 2-3  | 129   | 8    | 3    | 73.4% | 3.3% | 66.8%  | 80.0% |
| 3-4  | 118   | 9    | 3    | 67.7% | 3.6% | 60.7%  | 74.7% |
| 4-5  | 106   | 4    | 13   | 65.0% | 3.6% | 57.8%  | 72.1% |
| 5-   | 89    | 9    | 80   |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



Table 81-6

## Histological stage IV

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 719   | 160  | 64   | 76.7% | 1.5% | 73.7%  | 79.7% |
| 1-2  | 495   | 136  | 35   | 54.9% | 1.9% | 51.2%  | 58.5% |
| 2-3  | 324   | 86   | 21   | 39.8% | 1.9% | 36.1%  | 43.5% |
| 3-4  | 217   | 41   | 11   | 32.1% | 1.9% | 28.5%  | 35.7% |
| 4-5  | 165   | 20   | 9    | 28.1% | 1.8% | 24.5%  | 31.7% |
| 5-   | 136   | 29   | 107  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 363   | 89   | 34   | 74.3% | 2.2% | 69.9%  | 78.6% |
| 1-2  | 240   | 68   | 15   | 52.6% | 2.6% | 47.4%  | 57.7% |
| 2-3  | 157   | 41   | 6    | 38.6% | 2.7% | 33.3%  | 43.8% |
| 3-4  | 110   | 22   | 6    | 30.6% | 2.6% | 25.6%  | 35.7% |
| 4-5  | 82    | 14   | 5    | 25.2% | 2.5% | 20.4%  | 30.1% |
| 5-   | 63    | 16   | 47   |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 356   | 71   | 30   | 79.2% | 2.1% | 75.1%  | 83.3% |
| 1-2  | 255   | 68   | 20   | 57.2% | 2.6% | 52.0%  | 62.4% |
| 2-3  | 167   | 45   | 15   | 41.1% | 2.7% | 35.8%  | 46.4% |
| 3-4  | 107   | 19   | 5    | 33.6% | 2.7% | 28.3%  | 38.8% |
| 4-5  | 83    | 6    | 4    | 31.1% | 2.7% | 25.9%  | 36.3% |
| 5-   | 73    | 13   | 60   |       |      |        |       |

Table 82-1

## Histological stage

## Rectal cancer, surgical cases

## Histological stage 0

## Males and females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 91    | 0    | 10   | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 81    | 1    | 6    | 98.7%  | 1.2% | 96.3%  | 101.1% |
| 2-3  | 74    | 2    | 2    | 96.0%  | 2.2% | 91.7%  | 100.3% |
| 3-4  | 70    | 1    | 6    | 94.6%  | 2.6% | 89.5%  | 99.6%  |
| 4-5  | 63    | 1    | 4    | 93.0%  | 2.9% | 87.3%  | 98.8%  |
| 5-   | 58    | 2    | 56   |        |      |        |        |

## Males

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 47    | 0    | 5    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 42    | 0    | 2    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 40    | 1    | 1    | 97.5%  | 2.5% | 92.6%  | 102.3% |
| 3-4  | 38    | 1    | 5    | 94.7%  | 3.5% | 87.9%  | 101.5% |
| 4-5  | 32    | 0    | 2    | 94.7%  | 3.5% | 87.9%  | 101.5% |
| 5-   | 30    | 1    | 29   |        |      |        |        |

## Females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 44    | 0    | 5    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 39    | 1    | 4    | 97.3%  | 2.5% | 92.3%  | 102.3% |
| 2-3  | 34    | 1    | 1    | 94.4%  | 3.7% | 87.1%  | 101.7% |
| 3-4  | 32    | 0    | 1    | 94.4%  | 3.7% | 87.1%  | 101.7% |
| 4-5  | 31    | 1    | 2    | 91.2%  | 4.7% | 82.1%  | 100.4% |
| 5-   | 28    | 1    | 27   |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 82-2

## Histological stage I

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 663   | 8    | 25   | 98.8% | 0.4% | 97.9%  | 99.6% |
| 1-2  | 630   | 4    | 20   | 98.1% | 0.5% | 97.1%  | 99.2% |
| 2-3  | 606   | 10   | 17   | 96.5% | 0.7% | 95.1%  | 97.9% |
| 3-4  | 579   | 12   | 20   | 94.5% | 0.9% | 92.7%  | 96.2% |
| 4-5  | 547   | 12   | 60   | 92.3% | 1.1% | 90.2%  | 94.4% |
| 5-   | 475   | 9    | 466  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 422   | 7    | 14   | 98.3% | 0.6% | 97.1%  | 99.5% |
| 1-2  | 401   | 4    | 6    | 97.3% | 0.8% | 95.8%  | 98.9% |
| 2-3  | 391   | 7    | 12   | 95.6% | 1.0% | 93.6%  | 97.5% |
| 3-4  | 372   | 8    | 11   | 93.5% | 1.2% | 91.1%  | 95.9% |
| 4-5  | 353   | 10   | 32   | 90.7% | 1.4% | 87.9%  | 93.5% |
| 5-   | 311   | 9    | 302  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 241   | 1    | 11   | 99.6% | 0.4% | 98.8%  | 100.4% |
| 1-2  | 229   | 0    | 14   | 99.6% | 0.4% | 98.8%  | 100.4% |
| 2-3  | 215   | 3    | 5    | 98.2% | 0.9% | 96.4%  | 99.9%  |
| 3-4  | 207   | 4    | 9    | 96.2% | 1.3% | 93.7%  | 98.7%  |
| 4-5  | 194   | 2    | 28   | 95.2% | 1.4% | 92.3%  | 98.0%  |
| 5-   | 164   | 0    | 164  |       |      |        |        |

Table 82-3

## Histological stage

## Rectal cancer, surgical cases

## Histological stage II

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 724   | 20   | 26   | 97.2% | 0.6% | 96.0%  | 98.4% |
| 1-2  | 678   | 16   | 13   | 94.9% | 0.8% | 93.3%  | 96.5% |
| 2-3  | 649   | 27   | 20   | 90.9% | 1.1% | 88.7%  | 93.0% |
| 3-4  | 602   | 21   | 17   | 87.6% | 1.2% | 85.2%  | 90.1% |
| 4-5  | 564   | 18   | 67   | 84.7% | 1.4% | 82.0%  | 87.4% |
| 5-   | 479   | 32   | 447  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 461   | 18   | 16   | 96.0% | 0.9% | 94.3%  | 97.8% |
| 1-2  | 427   | 12   | 7    | 93.3% | 1.2% | 91.0%  | 95.6% |
| 2-3  | 408   | 22   | 14   | 88.2% | 1.5% | 85.2%  | 91.2% |
| 3-4  | 372   | 14   | 12   | 84.8% | 1.7% | 81.5%  | 88.1% |
| 4-5  | 346   | 12   | 42   | 81.7% | 1.8% | 78.1%  | 85.3% |
| 5-   | 292   | 23   | 269  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 263   | 2    | 10   | 99.2% | 0.5% | 98.2%  | 100.3% |
| 1-2  | 251   | 4    | 6    | 97.6% | 0.9% | 95.8%  | 99.5%  |
| 2-3  | 241   | 5    | 6    | 95.6% | 1.3% | 93.0%  | 98.1%  |
| 3-4  | 230   | 7    | 5    | 92.6% | 1.7% | 89.4%  | 95.9%  |
| 4-5  | 218   | 6    | 25   | 89.9% | 1.9% | 86.2%  | 93.7%  |
| 5-   | 187   | 9    | 178  |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 82-4

## Histological stage IIIa

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 644   | 13   | 20   | 97.9% | 0.6% | 96.9%  | 99.0% |
| 1-2  | 611   | 32   | 15   | 92.8% | 1.0% | 90.7%  | 94.8% |
| 2-3  | 564   | 32   | 16   | 87.4% | 1.3% | 84.8%  | 90.0% |
| 3-4  | 516   | 27   | 24   | 82.7% | 1.5% | 79.8%  | 85.7% |
| 4-5  | 465   | 28   | 41   | 77.5% | 1.7% | 74.2%  | 80.8% |
| 5-   | 396   | 28   | 368  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 418   | 7    | 15   | 98.3% | 0.6% | 97.1%  | 99.5% |
| 1-2  | 396   | 23   | 6    | 92.5% | 1.3% | 90.0%  | 95.1% |
| 2-3  | 367   | 26   | 13   | 85.9% | 1.7% | 82.5%  | 89.3% |
| 3-4  | 328   | 16   | 17   | 81.6% | 1.9% | 77.8%  | 85.4% |
| 4-5  | 295   | 20   | 24   | 75.8% | 2.2% | 71.6%  | 80.0% |
| 5-   | 251   | 20   | 231  |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 226   | 6    | 5    | 97.3% | 1.1% | 95.2%  | 99.4% |
| 1-2  | 215   | 9    | 9    | 93.2% | 1.7% | 89.9%  | 96.4% |
| 2-3  | 197   | 6    | 3    | 90.3% | 2.0% | 86.4%  | 94.2% |
| 3-4  | 188   | 11   | 7    | 84.9% | 2.4% | 80.2%  | 89.7% |
| 4-5  | 170   | 8    | 17   | 80.7% | 2.7% | 75.4%  | 86.0% |
| 5-   | 145   | 8    | 137  |       |      |        |       |

Table 82-5  
Histological stage  
Rectal cancer, surgical cases

Histological stage IIb

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 305   | 24   | 11   | 92.0% | 1.5% | 89.0%  | 95.0% |
| 1-2  | 270   | 32   | 5    | 81.0% | 2.3% | 76.6%  | 85.4% |
| 2-3  | 233   | 23   | 9    | 72.8% | 2.6% | 67.8%  | 77.9% |
| 3-4  | 201   | 22   | 9    | 64.7% | 2.8% | 59.2%  | 70.1% |
| 4-5  | 170   | 16   | 10   | 58.4% | 2.9% | 52.7%  | 64.1% |
| 5-   | 144   | 12   | 132  |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 183   | 15   | 8    | 91.6% | 2.0% | 87.7%  | 95.6% |
| 1-2  | 160   | 26   | 4    | 76.5% | 3.2% | 70.4%  | 82.7% |
| 2-3  | 130   | 12   | 6    | 69.3% | 3.5% | 62.5%  | 76.1% |
| 3-4  | 112   | 11   | 5    | 62.3% | 3.7% | 55.2%  | 69.5% |
| 4-5  | 96    | 10   | 6    | 55.6% | 3.8% | 48.2%  | 63.1% |
| 5-   | 80    | 10   | 70   |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 122   | 9    | 3    | 92.5% | 2.4% | 87.9%  | 97.2% |
| 1-2  | 110   | 6    | 1    | 87.5% | 3.0% | 81.6%  | 93.3% |
| 2-3  | 103   | 11   | 3    | 78.0% | 3.8% | 70.6%  | 85.4% |
| 3-4  | 89    | 11   | 4    | 68.1% | 4.3% | 59.8%  | 76.5% |
| 4-5  | 74    | 6    | 4    | 62.4% | 4.5% | 53.7%  | 71.2% |
| 5-   | 64    | 2    | 62   |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 82-6

## Histological stage IV

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 357   | 71   | 17   | 79.6% | 2.1% | 75.5%  | 83.7% |
| 1-2  | 269   | 77   | 16   | 56.1% | 2.6% | 51.0%  | 61.3% |
| 2-3  | 176   | 41   | 7    | 42.8% | 2.7% | 37.5%  | 48.0% |
| 3-4  | 128   | 25   | 7    | 34.2% | 2.6% | 29.1%  | 39.3% |
| 4-5  | 96    | 16   | 7    | 28.3% | 2.5% | 23.4%  | 33.2% |
| 5-   | 73    | 14   | 59   |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 228   | 42   | 13   | 81.0% | 2.6% | 76.0%  | 86.0% |
| 1-2  | 173   | 47   | 10   | 58.4% | 3.3% | 51.9%  | 64.8% |
| 2-3  | 116   | 30   | 6    | 42.9% | 3.4% | 36.3%  | 49.5% |
| 3-4  | 80    | 16   | 4    | 34.1% | 3.3% | 27.6%  | 40.5% |
| 4-5  | 60    | 9    | 5    | 28.7% | 3.2% | 22.5%  | 35.0% |
| 5-   | 46    | 10   | 36   |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 129   | 29   | 4    | 77.2% | 3.7% | 70.0%  | 84.3% |
| 1-2  | 96    | 30   | 6    | 52.3% | 4.4% | 43.7%  | 60.8% |
| 2-3  | 60    | 11   | 1    | 42.6% | 4.4% | 34.0%  | 51.3% |
| 3-4  | 48    | 9    | 3    | 34.4% | 4.3% | 26.0%  | 42.8% |
| 4-5  | 36    | 7    | 2    | 27.5% | 4.1% | 19.5%  | 35.5% |
| 5-   | 27    | 4    | 23   |       |      |        |       |

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

Curability A (cur A)

Males and females

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 3,460 | 66   | 156   | 98.0% | 0.2% | 97.6%  | 98.5% |
| 1-2  | 3,238 | 112  | 127   | 94.6% | 0.4% | 93.8%  | 95.3% |
| 2-3  | 2,999 | 113  | 109   | 91.0% | 0.5% | 90.0%  | 91.9% |
| 3-4  | 2,777 | 78   | 110   | 88.4% | 0.6% | 87.3%  | 89.4% |
| 4-5  | 2,589 | 69   | 285   | 85.9% | 0.6% | 84.7%  | 87.1% |
| 5-   | 2,235 | 120  | 2,115 |       |      |        |       |

Males

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 1,910 | 42   | 90    | 97.7% | 0.3% | 97.1%  | 98.4% |
| 1-2  | 1,778 | 67   | 67    | 94.0% | 0.5% | 92.9%  | 95.1% |
| 2-3  | 1,644 | 72   | 62    | 89.8% | 0.7% | 88.4%  | 91.2% |
| 3-4  | 1,510 | 38   | 64    | 87.5% | 0.8% | 86.0%  | 89.0% |
| 4-5  | 1,408 | 46   | 143   | 84.5% | 0.9% | 82.8%  | 86.2% |
| 5-   | 1,219 | 78   | 1,141 |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 1,550 | 24   | 66   | 98.4% | 0.3% | 97.8%  | 99.0% |
| 1-2  | 1,460 | 45   | 60   | 95.3% | 0.5% | 94.3%  | 96.4% |
| 2-3  | 1,355 | 41   | 47   | 92.4% | 0.7% | 91.0%  | 93.7% |
| 3-4  | 1,267 | 40   | 46   | 89.4% | 0.8% | 87.8%  | 91.0% |
| 4-5  | 1,181 | 23   | 142  | 87.6% | 0.9% | 85.9%  | 89.3% |
| 5-   | 1,016 | 42   | 974  |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



Table 83-2

## Curability B (cur B)

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 267   | 15   | 18   | 94.2% | 1.4% | 91.4%  | 96.9% |
| 1-2  | 234   | 19   | 9    | 86.4% | 2.1% | 82.2%  | 90.5% |
| 2-3  | 206   | 22   | 9    | 77.0% | 2.6% | 71.8%  | 82.1% |
| 3-4  | 175   | 15   | 8    | 70.2% | 2.9% | 64.5%  | 75.9% |
| 4-5  | 152   | 5    | 12   | 67.8% | 3.0% | 61.9%  | 73.7% |
| 5-   | 135   | 18   | 117  |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 129   | 5    | 10   | 96.0% | 1.7% | 92.6%  | 99.3% |
| 1-2  | 114   | 10   | 2    | 87.5% | 3.0% | 81.6%  | 93.3% |
| 2-3  | 102   | 10   | 6    | 78.6% | 3.7% | 71.4%  | 85.9% |
| 3-4  | 86    | 11   | 5    | 68.3% | 4.3% | 59.9%  | 76.7% |
| 4-5  | 70    | 3    | 8    | 65.2% | 4.4% | 56.5%  | 73.8% |
| 5-   | 59    | 9    | 50   |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 138   | 10   | 8    | 92.5% | 2.2% | 88.2%  | 96.9% |
| 1-2  | 120   | 9    | 7    | 85.4% | 3.0% | 79.5%  | 91.3% |
| 2-3  | 104   | 12   | 3    | 75.4% | 3.8% | 68.0%  | 82.8% |
| 3-4  | 89    | 4    | 3    | 71.9% | 4.0% | 64.2%  | 79.7% |
| 4-5  | 82    | 2    | 4    | 70.1% | 4.0% | 62.2%  | 78.1% |
| 5-   | 76    | 9    | 67   |       |      |        |       |

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

Curability C (cur C)

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 580   | 148  | 55   | 73.2% | 1.8% | 69.7%  | 76.7% |
| 1-2  | 377   | 127  | 28   | 47.6% | 2.1% | 43.5%  | 51.7% |
| 2-3  | 222   | 68   | 14   | 32.5% | 2.0% | 28.5%  | 36.5% |
| 3-4  | 140   | 35   | 9    | 24.1% | 1.9% | 20.4%  | 27.9% |
| 4-5  | 96    | 17   | 7    | 19.7% | 1.8% | 16.1%  | 23.3% |
| 5-   | 72    | 14   | 58   |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 290   | 84   | 26   | 69.7% | 2.6% | 64.6%  | 74.8% |
| 1-2  | 180   | 62   | 13   | 44.8% | 2.9% | 39.0%  | 50.5% |
| 2-3  | 105   | 33   | 3    | 30.5% | 2.8% | 24.9%  | 36.1% |
| 3-4  | 69    | 18   | 3    | 22.4% | 2.6% | 17.2%  | 27.5% |
| 4-5  | 48    | 10   | 5    | 17.5% | 2.4% | 12.7%  | 22.2% |
| 5-   | 33    | 8    | 25   |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 290   | 64   | 29   | 76.8% | 2.4% | 72.1%  | 81.5% |
| 1-2  | 197   | 65   | 15   | 50.4% | 3.0% | 44.6%  | 56.3% |
| 2-3  | 117   | 35   | 11   | 34.6% | 2.9% | 28.9%  | 40.3% |
| 3-4  | 71    | 17   | 6    | 26.0% | 2.8% | 20.5%  | 31.4% |
| 4-5  | 48    | 7    | 2    | 22.1% | 2.7% | 16.8%  | 27.4% |
| 5-   | 39    | 6    | 33   |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

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

Curability A (cur A)

Males and females

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 2,231 | 44   | 87    | 98.0% | 0.3% | 97.4%  | 98.6% |
| 1-2  | 2,100 | 65   | 49    | 94.9% | 0.5% | 94.0%  | 95.8% |
| 2-3  | 1,986 | 74   | 57    | 91.3% | 0.6% | 90.1%  | 92.5% |
| 3-4  | 1,855 | 74   | 71    | 87.6% | 0.7% | 86.2%  | 89.0% |
| 4-5  | 1,710 | 64   | 170   | 84.2% | 0.8% | 82.6%  | 85.7% |
| 5-   | 1,476 | 75   | 1,401 |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 1,415 | 35   | 54   | 97.5% | 0.4% | 96.7%  | 98.3% |
| 1-2  | 1,326 | 49   | 22   | 93.8% | 0.6% | 92.6%  | 95.1% |
| 2-3  | 1,255 | 54   | 41   | 89.7% | 0.8% | 88.1%  | 91.3% |
| 3-4  | 1,160 | 44   | 47   | 86.3% | 0.9% | 84.4%  | 88.1% |
| 4-5  | 1,069 | 44   | 102  | 82.5% | 1.0% | 80.5%  | 84.6% |
| 5-   | 923   | 56   | 867  |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 816   | 9    | 33   | 98.9% | 0.4% | 98.2%  | 99.6% |
| 1-2  | 774   | 16   | 27   | 96.8% | 0.6% | 95.6%  | 98.0% |
| 2-3  | 731   | 20   | 16   | 94.1% | 0.8% | 92.5%  | 95.8% |
| 3-4  | 695   | 30   | 24   | 90.0% | 1.1% | 87.9%  | 92.1% |
| 4-5  | 641   | 20   | 68   | 87.0% | 1.2% | 84.6%  | 89.4% |
| 5-   | 553   | 19   | 534  |       |      |        |       |

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

Curability B (cur B)

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 182   | 15   | 4    | 91.7% | 2.0% | 87.7%  | 95.7% |
| 1-2  | 163   | 19   | 9    | 80.7% | 2.9% | 75.0%  | 86.4% |
| 2-3  | 135   | 16   | 11   | 70.7% | 3.4% | 64.1%  | 77.4% |
| 3-4  | 108   | 11   | 4    | 63.4% | 3.7% | 56.2%  | 70.6% |
| 4-5  | 93    | 14   | 6    | 53.5% | 3.9% | 45.9%  | 61.1% |
| 5-   | 73    | 8    | 65   |       |      |        |       |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 115   | 6    | 2    | 94.7% | 2.1% | 90.7%  | 98.8% |
| 1-2  | 107   | 13   | 4    | 83.0% | 3.5% | 76.2%  | 89.9% |
| 2-3  | 90    | 15   | 8    | 68.5% | 4.3% | 60.0%  | 77.0% |
| 3-4  | 67    | 5    | 3    | 63.3% | 4.6% | 54.4%  | 72.2% |
| 4-5  | 59    | 8    | 3    | 54.5% | 4.8% | 45.0%  | 64.0% |
| 5-   | 48    | 6    | 42   |       |      |        |       |

Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 67    | 9    | 2    | 86.4% | 4.2% | 78.2%  | 94.5% |
| 1-2  | 56    | 6    | 5    | 76.7% | 5.1% | 66.6%  | 86.7% |
| 2-3  | 45    | 1    | 3    | 74.9% | 5.3% | 64.6%  | 85.3% |
| 3-4  | 41    | 6    | 1    | 63.8% | 6.1% | 51.9%  | 75.8% |
| 4-5  | 34    | 6    | 3    | 52.0% | 6.5% | 39.4%  | 64.7% |
| 5-   | 25    | 2    | 23   |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 84-3

## Curability C (cur C)

## Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 317   | 68   | 18   | 77.9% | 2.3% | 73.4%  | 82.4% |
| 1-2  | 231   | 72   | 13   | 52.9% | 2.8% | 47.4%  | 58.4% |
| 2-3  | 146   | 39   | 3    | 38.6% | 2.8% | 33.1%  | 44.2% |
| 3-4  | 104   | 22   | 5    | 30.3% | 2.7% | 25.0%  | 35.5% |
| 4-5  | 77    | 13   | 9    | 24.8% | 2.5% | 19.8%  | 29.8% |
| 5-   | 55    | 13   | 42   |       |      |        |       |

## Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 207   | 42   | 14   | 79.0% | 2.8% | 73.6%  | 84.4% |
| 1-2  | 151   | 46   | 7    | 54.4% | 3.5% | 47.5%  | 61.2% |
| 2-3  | 98    | 27   | 3    | 39.2% | 3.5% | 32.3%  | 46.0% |
| 3-4  | 68    | 16   | 3    | 29.7% | 3.3% | 23.2%  | 36.3% |
| 4-5  | 49    | 9    | 6    | 23.9% | 3.1% | 17.8%  | 30.0% |
| 5-   | 34    | 10   | 24   |       |      |        |       |

## Females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 110   | 26   | 4    | 75.9% | 4.0% | 68.0%  | 83.8% |
| 1-2  | 80    | 26   | 6    | 50.3% | 4.7% | 41.0%  | 59.6% |
| 2-3  | 48    | 12   | 0    | 37.7% | 4.7% | 28.4%  | 47.0% |
| 3-4  | 36    | 6    | 2    | 31.3% | 4.6% | 22.3%  | 40.2% |
| 4-5  | 28    | 4    | 3    | 26.5% | 4.4% | 17.9%  | 35.1% |
| 5-   | 21    | 3    | 18   |       |      |        |       |

Table 85-1

Macroscopic lymph node status of N0 and depth of tumor invasion

Colon cancer, surgical cases

N0 &amp; P0, H0, M(-)

M

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 151   | 1    | 11   | 99.3% | 0.7% | 98.0%  | 100.6% |
| 1-2  | 139   | 0    | 7    | 99.3% | 0.7% | 98.0%  | 100.6% |
| 2-3  | 132   | 2    | 6    | 97.8% | 1.2% | 95.3%  | 100.2% |
| 3-4  | 124   | 2    | 10   | 96.1% | 1.6% | 92.9%  | 99.4%  |
| 4-5  | 112   | 2    | 18   | 94.3% | 2.0% | 90.3%  | 98.2%  |
| 5-   | 92    | 6    | 86   |       |      |        |        |

SM

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 423   | 4    | 21   | 99.0% | 0.5% | 98.1%  | 100.0% |
| 1-2  | 398   | 4    | 19   | 98.0% | 0.7% | 96.7%  | 99.3%  |
| 2-3  | 375   | 6    | 19   | 96.4% | 0.9% | 94.6%  | 98.2%  |
| 3-4  | 350   | 2    | 15   | 95.8% | 1.0% | 93.9%  | 97.8%  |
| 4-5  | 333   | 4    | 40   | 94.6% | 1.1% | 92.4%  | 96.8%  |
| 5-   | 289   | 11   | 278  |       |      |        |        |

MP

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 307   | 6    | 15   | 98.0% | 0.8% | 96.4%  | 99.5% |
| 1-2  | 286   | 6    | 15   | 95.9% | 1.1% | 93.7%  | 98.1% |
| 2-3  | 265   | 7    | 11   | 93.3% | 1.5% | 90.5%  | 96.1% |
| 3-4  | 247   | 6    | 7    | 91.0% | 1.7% | 87.7%  | 94.3% |
| 4-5  | 234   | 8    | 20   | 87.7% | 2.0% | 83.9%  | 91.6% |
| 5-   | 206   | 8    | 198  |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

## SS/A1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 521   | 7    | 20   | 98.6% | 0.5% | 97.6%  | 99.6% |
| 1-2  | 494   | 16   | 20   | 95.4% | 0.9% | 93.6%  | 97.2% |
| 2-3  | 458   | 15   | 13   | 92.2% | 1.2% | 89.9%  | 94.5% |
| 3-4  | 430   | 13   | 16   | 89.4% | 1.4% | 86.6%  | 92.1% |
| 4-5  | 401   | 12   | 36   | 86.6% | 1.5% | 83.5%  | 89.6% |
| 5-   | 353   | 17   | 336  |       |      |        |       |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 187   | 2    | 17   | 98.9% | 0.8% | 97.4%  | 100.4% |
| 1-2  | 168   | 6    | 5    | 95.3% | 1.6% | 92.2%  | 98.4%  |
| 2-3  | 157   | 6    | 8    | 91.6% | 2.1% | 87.4%  | 95.7%  |
| 3-4  | 143   | 9    | 5    | 85.7% | 2.7% | 80.4%  | 91.0%  |
| 4-5  | 129   | 4    | 10   | 82.9% | 2.9% | 77.2%  | 88.7%  |
| 5-   | 115   | 5    | 110  |       |      |        |        |

## Si/Ai

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 65    | 4    | 3    | 93.7% | 3.0% | 87.9%  | 99.5% |
| 1-2  | 58    | 5    | 2    | 85.5% | 4.4% | 76.9%  | 94.1% |
| 2-3  | 51    | 2    | 1    | 82.1% | 4.8% | 72.7%  | 91.5% |
| 3-4  | 48    | 6    | 4    | 71.4% | 5.7% | 60.2%  | 82.6% |
| 4-5  | 38    | 1    | 9    | 69.3% | 5.8% | 57.8%  | 80.7% |
| 5-   | 28    | 5    | 23   |       |      |        |       |

Table 85-2

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

N1 & P0, H0, M(-)

M

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

SM

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 30    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 30    | 3    | 0    | 90.0%  | 5.5% | 79.3%  | 100.7% |
| 2-3  | 27    | 0    | 2    | 90.0%  | 5.5% | 79.3%  | 100.7% |
| 3-4  | 25    | 0    | 1    | 90.0%  | 5.5% | 79.3%  | 100.7% |
| 4-5  | 24    | 0    | 2    | 90.0%  | 5.5% | 79.3%  | 100.7% |
| 5-   | 22    | 1    | 21   |        |      |        |        |

MP

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 56    | 0    | 2    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 54    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 54    | 2    | 0    | 96.3%  | 2.6% | 91.3%  | 101.3% |
| 3-4  | 52    | 1    | 1    | 94.4%  | 3.1% | 88.3%  | 100.5% |
| 4-5  | 50    | 1    | 8    | 92.4%  | 3.6% | 85.4%  | 99.4%  |
| 5-   | 41    | 1    | 40   |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



## SS/A1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 367   | 8    | 15   | 97.8% | 0.8% | 96.3%  | 99.3% |
| 1-2  | 344   | 10   | 12   | 94.9% | 1.2% | 92.6%  | 97.1% |
| 2-3  | 322   | 20   | 13   | 88.9% | 1.7% | 85.6%  | 92.1% |
| 3-4  | 289   | 7    | 13   | 86.7% | 1.8% | 83.1%  | 90.2% |
| 4-5  | 269   | 9    | 33   | 83.6% | 2.0% | 79.7%  | 87.5% |
| 5-   | 227   | 11   | 216  |       |      |        |       |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 265   | 12   | 17   | 95.3% | 1.3% | 92.8%  | 97.8% |
| 1-2  | 236   | 11   | 16   | 90.7% | 1.8% | 87.2%  | 94.2% |
| 2-3  | 209   | 11   | 10   | 85.8% | 2.2% | 81.5%  | 90.1% |
| 3-4  | 188   | 11   | 12   | 80.6% | 2.5% | 75.7%  | 85.6% |
| 4-5  | 165   | 4    | 29   | 78.5% | 2.6% | 73.3%  | 83.7% |
| 5-   | 132   | 7    | 125  |       |      |        |       |

## Si/Ai

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 73    | 2    | 6    | 97.1% | 1.9% | 93.4%  | 100.9% |
| 1-2  | 65    | 7    | 1    | 86.6% | 4.1% | 78.6%  | 94.6%  |
| 2-3  | 57    | 1    | 2    | 85.1% | 4.3% | 76.6%  | 93.5%  |
| 3-4  | 54    | 3    | 6    | 80.1% | 4.8% | 70.6%  | 89.5%  |
| 4-5  | 45    | 1    | 6    | 78.1% | 5.0% | 68.3%  | 88.0%  |
| 5-   | 38    | 5    | 33   |       |      |        |        |

Table 85-3

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

N2 & P0, H0, M(-)

M

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

SM

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

MP

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 10    | 1    | 0    | 90.0% | 9.5% | 71.4%  | 108.6% |
| 1-2  | 9     | 0    | 0    | 90.0% | 9.5% | 71.4%  | 108.6% |
| 2-3  | 9     | 0    | 1    | 90.0% | 9.5% | 71.4%  | 108.6% |
| 3-4  | 8     | 0    | 1    | 90.0% | 9.5% | 71.4%  | 108.6% |
| 4-5  | 7     | 0    | 0    | 90.0% | 9.5% | 71.4%  | 108.6% |
| 5-   | 7     | 0    | 7    |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

## SS/A1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 138   | 1    | 5    | 99.3% | 0.7% | 97.8%  | 100.7% |
| 1-2  | 132   | 5    | 5    | 95.4% | 1.8% | 91.9%  | 98.9%  |
| 2-3  | 122   | 7    | 3    | 89.9% | 2.6% | 84.7%  | 95.0%  |
| 3-4  | 112   | 4    | 4    | 86.6% | 3.0% | 80.8%  | 92.5%  |
| 4-5  | 104   | 3    | 8    | 84.0% | 3.2% | 77.7%  | 90.3%  |
| 5-   | 93    | 5    | 88   |       |      |        |        |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 166   | 5    | 5    | 96.9% | 1.3% | 94.3%  | 99.5% |
| 1-2  | 156   | 8    | 7    | 91.9% | 2.1% | 87.7%  | 96.0% |
| 2-3  | 141   | 5    | 4    | 88.6% | 2.5% | 83.7%  | 93.4% |
| 3-4  | 132   | 6    | 2    | 84.5% | 2.9% | 78.9%  | 90.1% |
| 4-5  | 124   | 4    | 9    | 81.7% | 3.1% | 75.6%  | 87.7% |
| 5-   | 111   | 9    | 102  |       |      |        |       |

## Si/Ai

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 85    | 4    | 4    | 95.2% | 2.3% | 90.7%  | 99.7% |
| 1-2  | 77    | 4    | 5    | 90.1% | 3.2% | 83.7%  | 96.4% |
| 2-3  | 68    | 9    | 3    | 77.9% | 4.6% | 68.8%  | 87.0% |
| 3-4  | 56    | 2    | 0    | 75.1% | 4.9% | 65.6%  | 84.6% |
| 4-5  | 54    | 6    | 6    | 66.3% | 5.3% | 55.8%  | 76.7% |
| 5-   | 42    | 6    | 36   |       |      |        |       |

Table 85-4

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

N3 & P0, H0, M(-)

M

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 8     | 1    | 1    | 86.7% | 11.6% | 64.0%  | 109.4% |
| 1-2  | 6     | 1    | 0    | 72.2% | 16.3% | 40.2%  | 104.2% |
| 2-3  | 5     | 0    | 0    | 72.2% | 16.3% | 40.2%  | 104.2% |
| 3-4  | 5     | 0    | 0    | 72.2% | 16.3% | 40.2%  | 104.2% |
| 4-5  | 5     | 0    | 0    | 72.2% | 16.3% | 40.2%  | 104.2% |
| 5-   | 5     | 1    | 4    |       |       |        |        |

SM

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

MP

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

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

## SS/A1

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 22    | 2    | 1    | 90.7% | 6.1%  | 78.7%  | 102.7% |
| 1-2  | 19    | 4    | 1    | 71.1% | 9.7%  | 52.1%  | 90.1%  |
| 2-3  | 14    | 1    | 1    | 65.8% | 10.2% | 45.8%  | 85.8%  |
| 3-4  | 12    | 0    | 0    | 65.8% | 10.2% | 45.8%  | 85.8%  |
| 4-5  | 12    | 3    | 1    | 48.7% | 11.1% | 26.9%  | 70.4%  |
| 5-   | 8     | 1    | 7    |       |       |        |        |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |       |
|------|-------|------|------|-------|-------|--------|-------|
| 0-1  | 23    | 4    | 1    | 82.2% | 7.9%  | 66.8%  | 97.6% |
| 1-2  | 18    | 2    | 1    | 72.8% | 9.2%  | 54.7%  | 90.9% |
| 2-3  | 15    | 2    | 0    | 63.1% | 10.2% | 43.0%  | 83.2% |
| 3-4  | 13    | 1    | 0    | 58.3% | 10.5% | 37.6%  | 78.9% |
| 4-5  | 12    | 1    | 1    | 53.2% | 10.7% | 32.3%  | 74.1% |
| 5-   | 10    | 0    | 10   |       |       |        |       |

## Si/Ai

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 8     | 1    | 1    | 86.7% | 11.6% | 64.0%  | 109.4% |
| 1-2  | 6     | 1    | 0    | 72.2% | 16.3% | 40.2%  | 104.2% |
| 2-3  | 5     | 0    | 0    | 72.2% | 16.3% | 40.2%  | 104.2% |
| 3-4  | 5     | 0    | 0    | 72.2% | 16.3% | 40.2%  | 104.2% |
| 4-5  | 5     | 0    | 0    | 72.2% | 16.3% | 40.2%  | 104.2% |
| 5-   | 5     | 1    | 4    |       |       |        |        |

Table 85-5

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

N4 & P0, H0, M(-)

M

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

SM

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

MP

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

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

## SS/A1

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 3     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 3     | 1    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 2-3  | 2     | 0    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 3-4  | 2     | 0    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 4-5  | 2     | 0    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 5-   | 2     | 0    | 2    |        |       |        |        |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 16    | 1    | 1    | 93.5% | 6.0%  | 81.7%  | 105.4% |
| 1-2  | 14    | 5    | 0    | 60.1% | 12.6% | 35.5%  | 84.8%  |
| 2-3  | 9     | 2    | 1    | 46.0% | 12.6% | 21.2%  | 70.8%  |
| 3-4  | 6     | 2    | 0    | 30.7% | 12.2% | 6.7%   | 54.6%  |
| 4-5  | 4     | 1    | 1    | 21.9% | 10.8% | 0.8%   | 43.0%  |
| 5-   | 2     | 0    | 2    |       |       |        |        |

## Si/Ai

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 8     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 8     | 2    | 0    | 75.0%  | 15.3% | 45.0%  | 105.0% |
| 2-3  | 6     | 1    | 0    | 62.5%  | 17.1% | 29.0%  | 96.0%  |
| 3-4  | 5     | 0    | 0    | 62.5%  | 17.1% | 29.0%  | 96.0%  |
| 4-5  | 5     | 0    | 0    | 62.5%  | 17.1% | 29.0%  | 96.0%  |
| 5-   | 5     | 1    | 4    |        |       |        |        |

Table 86-1

Macroscopic lymph node status of N0 and depth of tumor invasion

Rectal cancer, surgical cases

N0 &amp; P0, H0, M(-)

M

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 63    | 0    | 7    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 56    | 0    | 2    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 54    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 3-4  | 54    | 1    | 3    | 98.1%  | 1.8% | 94.5%  | 101.7% |
| 4-5  | 50    | 2    | 3    | 94.1%  | 3.2% | 87.7%  | 100.4% |
| 5-   | 45    | 2    | 43   |        |      |        |        |

SM

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 220   | 4    | 13   | 98.1% | 0.9% | 96.4%  | 99.9% |
| 1-2  | 203   | 1    | 10   | 97.6% | 1.0% | 95.6%  | 99.6% |
| 2-3  | 192   | 4    | 6    | 95.6% | 1.4% | 92.8%  | 98.3% |
| 3-4  | 182   | 1    | 10   | 95.0% | 1.5% | 92.1%  | 98.0% |
| 4-5  | 171   | 0    | 20   | 95.0% | 1.5% | 92.1%  | 98.0% |
| 5-   | 151   | 5    | 146  |       |      |        |       |

MP

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 275   | 1    | 7    | 99.6% | 0.4% | 98.9%  | 100.3% |
| 1-2  | 267   | 5    | 5    | 97.7% | 0.9% | 96.0%  | 99.5%  |
| 2-3  | 257   | 3    | 10   | 96.6% | 1.1% | 94.4%  | 98.7%  |
| 3-4  | 244   | 7    | 7    | 93.8% | 1.5% | 90.9%  | 96.7%  |
| 4-5  | 230   | 6    | 21   | 91.2% | 1.8% | 87.8%  | 94.6%  |
| 5-   | 203   | 8    | 195  |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



## SS/A1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 346   | 5    | 16   | 98.5% | 0.6% | 97.3%  | 99.8% |
| 1-2  | 325   | 5    | 4    | 97.0% | 0.9% | 95.2%  | 98.8% |
| 2-3  | 316   | 10   | 10   | 93.9% | 1.3% | 91.3%  | 96.4% |
| 3-4  | 296   | 8    | 7    | 91.3% | 1.5% | 88.3%  | 94.3% |
| 4-5  | 281   | 10   | 32   | 87.9% | 1.8% | 84.3%  | 91.4% |
| 5-   | 239   | 14   | 225  |       |      |        |       |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 131   | 6    | 7    | 95.3% | 1.8% | 91.7%  | 98.9% |
| 1-2  | 118   | 5    | 1    | 91.2% | 2.5% | 86.4%  | 96.1% |
| 2-3  | 112   | 4    | 4    | 87.9% | 2.9% | 82.3%  | 93.6% |
| 3-4  | 104   | 4    | 5    | 84.5% | 3.2% | 78.1%  | 90.8% |
| 4-5  | 95    | 8    | 5    | 77.2% | 3.8% | 69.7%  | 84.6% |
| 5-   | 82    | 7    | 75   |       |      |        |       |

## Si/Ai

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 27    | 0    | 1    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 26    | 0    | 3    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 2-3  | 23    | 1    | 1    | 95.6%  | 4.2%  | 87.2%  | 103.9% |
| 3-4  | 21    | 1    | 2    | 90.8%  | 6.0%  | 79.0%  | 102.5% |
| 4-5  | 18    | 5    | 0    | 65.6%  | 10.5% | 45.0%  | 86.2%  |
| 5-   | 13    | 1    | 12   |        |       |        |        |

Table 86-2

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

N1 & P0, H0, M(-)

M

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

SM

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 14    | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 13    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 13    | 1    | 0    | 92.3%  | 7.4% | 77.8%  | 106.8% |
| 3-4  | 12    | 0    | 0    | 92.3%  | 7.4% | 77.8%  | 106.8% |
| 4-5  | 12    | 0    | 4    | 92.3%  | 7.4% | 77.8%  | 106.8% |
| 5-   | 8     | 0    | 8    |        |      |        |        |

MP

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 58    | 1    | 1    | 98.3% | 1.7% | 94.9%  | 101.6% |
| 1-2  | 56    | 2    | 1    | 94.7% | 2.9% | 89.0%  | 100.5% |
| 2-3  | 53    | 0    | 1    | 94.7% | 2.9% | 89.0%  | 100.5% |
| 3-4  | 52    | 3    | 2    | 89.1% | 4.1% | 81.1%  | 97.2%  |
| 4-5  | 47    | 2    | 5    | 85.1% | 4.7% | 75.9%  | 94.4%  |
| 5-   | 40    | 1    | 39   |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

## SS/A1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 220   | 3    | 13   | 98.6% | 0.8% | 97.1%  | 100.1% |
| 1-2  | 204   | 8    | 4    | 94.7% | 1.5% | 91.7%  | 97.7%  |
| 2-3  | 192   | 11   | 7    | 89.2% | 2.1% | 85.0%  | 93.4%  |
| 3-4  | 174   | 13   | 6    | 82.4% | 2.7% | 77.2%  | 87.6%  |
| 4-5  | 155   | 8    | 7    | 78.0% | 2.9% | 72.3%  | 83.7%  |
| 5-   | 140   | 8    | 132  |       |      |        |        |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 172   | 7    | 7    | 95.8% | 1.5% | 92.9%  | 98.8% |
| 1-2  | 158   | 11   | 2    | 89.1% | 2.4% | 84.4%  | 93.8% |
| 2-3  | 145   | 10   | 3    | 82.9% | 2.9% | 77.2%  | 88.6% |
| 3-4  | 132   | 12   | 4    | 75.3% | 3.4% | 68.7%  | 81.8% |
| 4-5  | 116   | 2    | 16   | 73.9% | 3.4% | 67.2%  | 80.6% |
| 5-   | 98    | 6    | 92   |       |      |        |       |

## Si/Ai

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 43    | 2    | 1    | 95.3% | 3.2% | 89.0%  | 101.6% |
| 1-2  | 40    | 5    | 3    | 82.9% | 5.7% | 71.8%  | 94.1%  |
| 2-3  | 32    | 0    | 1    | 82.9% | 5.7% | 71.8%  | 94.1%  |
| 3-4  | 31    | 2    | 2    | 77.4% | 6.4% | 64.8%  | 90.0%  |
| 4-5  | 27    | 0    | 4    | 77.4% | 6.4% | 64.8%  | 90.0%  |
| 5-   | 23    | 1    | 22   |       |      |        |        |

Table 86-3

Macroscopic lymph node status of N2 and depth of tumor invasion

Rectal cancer, surgical cases

N2 &amp; P0, H0, M(-)

M

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

SM

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

MP

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 10    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 10    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 10    | 1    | 1    | 89.5%  | 9.4% | 71.0%  | 108.0% |
| 3-4  | 8     | 0    | 0    | 89.5%  | 9.4% | 71.0%  | 108.0% |
| 4-5  | 8     | 0    | 0    | 89.5%  | 9.4% | 71.0%  | 108.0% |
| 5-   | 8     | 1    | 7    |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

## SS/A1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 88    | 7    | 2    | 92.0% | 2.9% | 86.3%  | 97.6% |
| 1-2  | 79    | 4    | 3    | 87.2% | 3.6% | 80.2%  | 94.2% |
| 2-3  | 72    | 2    | 5    | 84.7% | 3.8% | 77.2%  | 92.2% |
| 3-4  | 65    | 5    | 3    | 78.0% | 4.5% | 69.2%  | 86.9% |
| 4-5  | 57    | 3    | 5    | 73.7% | 4.8% | 64.2%  | 83.2% |
| 5-   | 49    | 3    | 46   |       |      |        |       |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 85    | 6    | 2    | 92.9% | 2.8% | 87.4%  | 98.3% |
| 1-2  | 77    | 5    | 2    | 86.7% | 3.7% | 79.5%  | 94.0% |
| 2-3  | 70    | 7    | 2    | 77.9% | 4.5% | 69.1%  | 86.8% |
| 3-4  | 61    | 5    | 3    | 71.4% | 5.0% | 61.7%  | 81.1% |
| 4-5  | 53    | 5    | 8    | 64.1% | 5.3% | 53.7%  | 74.5% |
| 5-   | 40    | 5    | 35   |       |      |        |       |

## Si/Ai

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 32    | 2    | 0    | 93.8% | 4.3% | 85.4%  | 102.1% |
| 1-2  | 30    | 5    | 0    | 78.1% | 7.3% | 63.8%  | 92.4%  |
| 2-3  | 25    | 4    | 0    | 65.6% | 8.4% | 49.2%  | 82.1%  |
| 3-4  | 21    | 3    | 1    | 56.0% | 8.7% | 38.9%  | 73.1%  |
| 4-5  | 17    | 4    | 2    | 42.0% | 8.7% | 25.1%  | 59.0%  |
| 5-   | 11    | 2    | 9    |       |      |        |        |

Table 86-4

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

N3 & P0, H0, M(-)

M

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

SM

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

MP

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

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

## SS/A1

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 16    | 2    | 0    | 87.5% | 8.3%  | 71.3%  | 103.7% |
| 1-2  | 14    | 1    | 0    | 81.3% | 9.8%  | 62.1%  | 100.4% |
| 2-3  | 13    | 1    | 0    | 75.0% | 10.8% | 53.8%  | 96.2%  |
| 3-4  | 12    | 1    | 2    | 68.2% | 11.5% | 45.7%  | 90.7%  |
| 4-5  | 9     | 0    | 3    | 68.2% | 11.5% | 45.7%  | 90.7%  |
| 5-   | 6     | 0    | 6    |       |       |        |        |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 14    | 3    | 0    | 78.6% | 11.0% | 57.1%  | 100.1% |
| 1-2  | 11    | 1    | 1    | 71.1% | 12.0% | 47.5%  | 94.6%  |
| 2-3  | 9     | 1    | 0    | 63.2% | 13.0% | 37.7%  | 88.7%  |
| 3-4  | 8     | 1    | 0    | 55.3% | 13.6% | 28.7%  | 81.9%  |
| 4-5  | 7     | 1    | 0    | 47.4% | 13.7% | 20.5%  | 74.3%  |
| 5-   | 6     | 2    | 4    |       |       |        |        |

## Si/Ai

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 14    | 1    | 0    | 92.9% | 6.9%  | 79.4%  | 106.3% |
| 1-2  | 13    | 3    | 1    | 70.6% | 11.9% | 47.2%  | 94.0%  |
| 2-3  | 9     | 0    | 1    | 70.6% | 11.9% | 47.2%  | 94.0%  |
| 3-4  | 8     | 0    | 0    | 70.6% | 11.9% | 47.2%  | 94.0%  |
| 4-5  | 8     | 1    | 0    | 61.8% | 13.3% | 35.7%  | 87.8%  |
| 5-   | 7     | 0    | 7    |       |       |        |        |

Table 86-5

Macroscopic lymph node status of N4 and depth of tumor invasion

Rectal cancer, surgical cases

N4 &amp; P0, H0, M(-)

M

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

SM

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

MP

| Year | Alive | Died | Lost | SR     | SE    | 95% CI        |
|------|-------|------|------|--------|-------|---------------|
| 0-1  | 2     | 0    | 0    | 100.0% | 0.0%  | 100.0% 100.0% |
| 1-2  | 2     | 1    | 0    | 50.0%  | 35.4% | -19.3% 119.3% |
| 2-3  | 1     | 1    | 0    | 0.0%   |       |               |
| 3-4  | 0     | 0    | 0    |        |       |               |
| 4-5  | 0     | 0    | 0    |        |       |               |
| 5-   | 0     | 0    | 0    |        |       |               |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



## SS/A1

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 3     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 3     | 1    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 2-3  | 2     | 0    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 3-4  | 2     | 0    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 4-5  | 2     | 0    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 5-   | 2     | 0    | 2    |        |       |        |        |

## SE/A2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 16    | 1    | 1    | 93.5% | 6.0%  | 81.7%  | 105.4% |
| 1-2  | 14    | 5    | 0    | 60.1% | 12.6% | 35.5%  | 84.8%  |
| 2-3  | 9     | 2    | 1    | 46.0% | 12.6% | 21.2%  | 70.8%  |
| 3-4  | 6     | 2    | 0    | 30.7% | 12.2% | 6.7%   | 54.6%  |
| 4-5  | 4     | 1    | 1    | 21.9% | 10.8% | 0.8%   | 43.0%  |
| 5-   | 2     | 0    | 2    |       |       |        |        |

## Si/Ai

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 8     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 8     | 2    | 0    | 75.0%  | 15.3% | 45.0%  | 105.0% |
| 2-3  | 6     | 1    | 0    | 62.5%  | 17.1% | 29.0%  | 96.0%  |
| 3-4  | 5     | 0    | 0    | 62.5%  | 17.1% | 29.0%  | 96.0%  |
| 4-5  | 5     | 0    | 0    | 62.5%  | 17.1% | 29.0%  | 96.0%  |
| 5-   | 5     | 1    | 4    |        |       |        |        |

Table 87-1

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

n0 & P0, H0, M(-)

m

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 194   | 0    | 11   | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 183   | 2    | 11   | 98.9%  | 0.8% | 97.4%  | 100.4% |
| 2-3  | 170   | 4    | 11   | 96.5%  | 1.4% | 93.8%  | 99.2%  |
| 3-4  | 155   | 2    | 9    | 95.2%  | 1.6% | 92.0%  | 98.3%  |
| 4-5  | 144   | 2    | 22   | 93.8%  | 1.8% | 90.2%  | 97.4%  |
| 5-   | 120   | 6    | 114  |        |      |        |        |

sm

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 412   | 4    | 23   | 99.0% | 0.5% | 98.1%  | 99.9% |
| 1-2  | 385   | 3    | 19   | 98.2% | 0.7% | 96.9%  | 99.5% |
| 2-3  | 363   | 3    | 14   | 97.4% | 0.8% | 95.8%  | 98.9% |
| 3-4  | 346   | 5    | 19   | 95.9% | 1.0% | 94.0%  | 97.9% |
| 4-5  | 322   | 5    | 39   | 94.3% | 1.2% | 92.0%  | 96.7% |
| 5-   | 278   | 12   | 266  |       |      |        |       |

mp

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 315   | 7    | 15   | 97.7% | 0.8% | 96.1%  | 99.4% |
| 1-2  | 293   | 4    | 10   | 96.4% | 1.1% | 94.3%  | 98.4% |
| 2-3  | 279   | 7    | 12   | 93.9% | 1.4% | 91.2%  | 96.6% |
| 3-4  | 260   | 4    | 10   | 92.4% | 1.5% | 89.4%  | 95.4% |
| 4-5  | 246   | 5    | 23   | 90.5% | 1.7% | 87.1%  | 93.8% |
| 5-   | 218   | 8    | 210  |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 793   | 12   | 34   | 98.5% | 0.4% | 97.6%  | 99.3% |
| 1-2  | 747   | 23   | 31   | 95.4% | 0.8% | 93.9%  | 96.8% |
| 2-3  | 693   | 23   | 26   | 92.1% | 1.0% | 90.2%  | 94.0% |
| 3-4  | 644   | 21   | 25   | 89.1% | 1.1% | 86.8%  | 91.3% |
| 4-5  | 598   | 15   | 55   | 86.7% | 1.2% | 84.3%  | 89.2% |
| 5-   | 528   | 18   | 510  |       |      |        |       |

se/a2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 214   | 3    | 19   | 98.5% | 0.8% | 97.0%  | 100.1% |
| 1-2  | 192   | 9    | 6    | 93.8% | 1.7% | 90.5%  | 97.1%  |
| 2-3  | 177   | 6    | 10   | 90.6% | 2.1% | 86.5%  | 94.6%  |
| 3-4  | 161   | 4    | 6    | 88.3% | 2.3% | 83.8%  | 92.8%  |
| 4-5  | 151   | 3    | 13   | 86.4% | 2.5% | 81.6%  | 91.3%  |
| 5-   | 135   | 11   | 124  |       |      |        |        |

si/ai

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 74    | 3    | 3    | 95.9% | 2.3% | 91.4%  | 100.4% |
| 1-2  | 68    | 4    | 4    | 90.1% | 3.5% | 83.2%  | 96.9%  |
| 2-3  | 60    | 2    | 3    | 87.0% | 4.0% | 79.2%  | 94.7%  |
| 3-4  | 55    | 5    | 1    | 79.0% | 4.9% | 69.3%  | 88.6%  |
| 4-5  | 49    | 1    | 9    | 77.2% | 5.1% | 67.3%  | 87.2%  |
| 5-   | 39    | 6    | 33   |       |      |        |        |

Table 87-2

Microscopic lymph node status of n1 and depth of tumor invasion

Colon cancer, surgical cases

n1 &amp; P0, H0, M(-)

m

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

sm

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 37    | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 36    | 2    | 0    | 94.4%  | 3.8% | 87.0%  | 101.9% |
| 2-3  | 34    | 0    | 4    | 94.4%  | 3.8% | 87.0%  | 101.9% |
| 3-4  | 30    | 0    | 1    | 94.4%  | 3.8% | 87.0%  | 101.9% |
| 4-5  | 29    | 0    | 2    | 94.4%  | 3.8% | 87.0%  | 101.9% |
| 5-   | 27    | 2    | 25   |        |      |        |        |

mp

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 67    | 1    | 2    | 98.5% | 1.5% | 95.6%  | 101.4% |
| 1-2  | 64    | 2    | 2    | 95.4% | 2.6% | 90.3%  | 100.4% |
| 2-3  | 60    | 4    | 1    | 88.9% | 3.9% | 81.3%  | 96.6%  |
| 3-4  | 55    | 0    | 0    | 88.9% | 3.9% | 81.3%  | 96.6%  |
| 4-5  | 55    | 1    | 6    | 87.2% | 4.1% | 79.1%  | 95.4%  |
| 5-   | 48    | 2    | 46   |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 323   | 9    | 8    | 97.2% | 0.9% | 95.4%  | 99.0% |
| 1-2  | 306   | 10   | 10   | 94.0% | 1.3% | 91.4%  | 96.5% |
| 2-3  | 286   | 18   | 11   | 87.9% | 1.8% | 84.3%  | 91.5% |
| 3-4  | 257   | 10   | 11   | 84.4% | 2.1% | 80.4%  | 88.4% |
| 4-5  | 236   | 5    | 30   | 82.5% | 2.2% | 78.3%  | 86.7% |
| 5-   | 201   | 11   | 190  |       |      |        |       |

se/a2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 181   | 6    | 13   | 96.6% | 1.3% | 94.0%  | 99.2% |
| 1-2  | 162   | 4    | 11   | 94.1% | 1.7% | 90.7%  | 97.5% |
| 2-3  | 147   | 11   | 5    | 86.9% | 2.6% | 81.8%  | 92.0% |
| 3-4  | 131   | 7    | 11   | 82.1% | 3.0% | 76.2%  | 87.9% |
| 4-5  | 113   | 6    | 15   | 77.4% | 3.3% | 70.9%  | 83.9% |
| 5-   | 92    | 8    | 84   |       |      |        |       |

si/ai

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 39    | 3    | 3    | 92.0% | 4.3% | 83.7%  | 100.3% |
| 1-2  | 33    | 4    | 4    | 80.1% | 6.4% | 67.6%  | 92.6%  |
| 2-3  | 25    | 1    | 0    | 76.9% | 6.9% | 63.5%  | 90.4%  |
| 3-4  | 24    | 2    | 1    | 70.4% | 7.6% | 55.4%  | 85.3%  |
| 4-5  | 21    | 1    | 5    | 66.6% | 7.9% | 51.1%  | 82.1%  |
| 5-   | 15    | 2    | 13   |       |      |        |        |

Table 87-3

Microscopic lymph node status of n2 and depth of tumor invasion

Colon cancer, surgical cases

n2 &amp; P0, H0, M(-)

m

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

sm

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

mp

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 14    | 1    | 1    | 92.6% | 6.9% | 79.1%  | 106.0% |
| 1-2  | 12    | 0    | 2    | 92.6% | 6.9% | 79.1%  | 106.0% |
| 2-3  | 10    | 0    | 1    | 92.6% | 6.9% | 79.1%  | 106.0% |
| 3-4  | 9     | 0    | 0    | 92.6% | 6.9% | 79.1%  | 106.0% |
| 4-5  | 9     | 0    | 1    | 92.6% | 6.9% | 79.1%  | 106.0% |
| 5-   | 8     | 0    | 8    |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 120   | 4    | 6    | 96.6% | 1.6% | 93.4%  | 99.8% |
| 1-2  | 110   | 5    | 3    | 92.1% | 2.5% | 87.3%  | 97.0% |
| 2-3  | 102   | 4    | 1    | 88.5% | 3.0% | 82.7%  | 94.3% |
| 3-4  | 97    | 3    | 3    | 85.7% | 3.3% | 79.3%  | 92.1% |
| 4-5  | 91    | 6    | 10   | 79.7% | 3.8% | 72.4%  | 87.1% |
| 5-   | 75    | 6    | 69   |       |      |        |       |

se/a2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 75    | 3    | 2    | 95.9% | 2.3% | 91.5%  | 100.4% |
| 1-2  | 70    | 7    | 2    | 86.2% | 4.0% | 78.4%  | 94.0%  |
| 2-3  | 61    | 7    | 1    | 76.2% | 5.0% | 66.5%  | 86.0%  |
| 3-4  | 53    | 5    | 2    | 68.9% | 5.4% | 58.2%  | 79.6%  |
| 4-5  | 46    | 2    | 6    | 65.7% | 5.6% | 54.8%  | 76.6%  |
| 5-   | 38    | 6    | 32   |       |      |        |        |

si/ai

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 24    | 3    | 0    | 87.5% | 6.8%  | 74.3%  | 100.7% |
| 1-2  | 21    | 6    | 0    | 62.5% | 9.9%  | 43.1%  | 81.9%  |
| 2-3  | 15    | 5    | 0    | 41.7% | 10.1% | 21.9%  | 61.4%  |
| 3-4  | 10    | 2    | 0    | 33.3% | 9.6%  | 14.5%  | 52.2%  |
| 4-5  | 8     | 2    | 2    | 23.8% | 8.4%  | 7.3%   | 40.3%  |
| 5-   | 4     | 1    | 3    |       |       |        |        |

Table 87-4

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

n3 & P0, H0, M(-)

m

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

sm

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

mp

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

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



ss/a1

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 24    | 1    | 1    | 95.7% | 4.1%  | 87.8%  | 103.7% |
| 1-2  | 22    | 3    | 1    | 82.4% | 7.8%  | 67.1%  | 97.7%  |
| 2-3  | 18    | 2    | 1    | 73.0% | 9.2%  | 54.9%  | 91.0%  |
| 3-4  | 15    | 2    | 0    | 63.2% | 10.2% | 43.2%  | 83.3%  |
| 4-5  | 13    | 4    | 0    | 43.8% | 10.8% | 22.7%  | 64.9%  |
| 5-   | 9     | 1    | 8    |       |       |        |        |

se/a2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |       |
|------|-------|------|------|-------|-------|--------|-------|
| 0-1  | 14    | 5    | 0    | 64.3% | 12.8% | 39.2%  | 89.4% |
| 1-2  | 9     | 3    | 1    | 41.6% | 12.8% | 16.4%  | 66.8% |
| 2-3  | 5     | 1    | 0    | 33.3% | 12.7% | 8.4%   | 58.1% |
| 3-4  | 4     | 0    | 0    | 33.3% | 12.7% | 8.4%   | 58.1% |
| 4-5  | 4     | 1    | 0    | 25.0% | 11.9% | 1.6%   | 48.3% |
| 5-   | 3     | 0    | 3    |       |       |        |       |

si/ai

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 9     | 0    | 1    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 8     | 2    | 0    | 75.0%  | 15.3% | 45.0%  | 105.0% |
| 2-3  | 6     | 1    | 0    | 62.5%  | 17.1% | 29.0%  | 96.0%  |
| 3-4  | 5     | 1    | 1    | 48.6%  | 17.2% | 14.9%  | 82.3%  |
| 4-5  | 3     | 0    | 0    | 48.6%  | 17.2% | 14.9%  | 82.3%  |
| 5-   | 3     | 1    | 2    |        |       |        |        |

Table 87-5

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

n4 & P0, H0, M(-)

m

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

sm

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

mp

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

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 6     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 6     | 2    | 0    | 66.7%  | 19.2% | 28.9%  | 104.4% |
| 2-3  | 4     | 0    | 1    | 66.7%  | 19.2% | 28.9%  | 104.4% |
| 3-4  | 3     | 0    | 0    | 66.7%  | 19.2% | 28.9%  | 104.4% |
| 4-5  | 3     | 0    | 0    | 66.7%  | 19.2% | 28.9%  | 104.4% |
| 5-   | 3     | 1    | 2    |        |       |        |        |

se/a2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 10    | 1    | 1    | 89.5% | 9.4%  | 71.0%  | 108.0% |
| 1-2  | 8     | 3    | 0    | 55.9% | 16.4% | 23.8%  | 88.1%  |
| 2-3  | 5     | 1    | 1    | 43.5% | 16.0% | 12.0%  | 74.9%  |
| 3-4  | 3     | 0    | 0    | 43.5% | 16.0% | 12.0%  | 74.9%  |
| 4-5  | 3     | 1    | 0    | 29.0% | 16.0% | -2.3%  | 60.3%  |
| 5-   | 2     | 0    | 2    |       |       |        |        |

si/ai

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 3     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 3     | 1    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 2-3  | 2     | 1    | 0    | 33.3%  | 27.2% | -20.0% | 86.7%  |
| 3-4  | 1     | 0    | 0    | 33.3%  | 27.2% | -20.0% | 86.7%  |
| 4-5  | 1     | 0    | 0    | 33.3%  | 27.2% | -20.0% | 86.7%  |
| 5-   | 1     | 0    | 1    |        |       |        |        |

Table 88-1

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

n0 & P0, H0, M(-)

m

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 71    | 0    | 8    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 63    | 0    | 5    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 58    | 1    | 2    | 98.2%  | 1.7% | 94.9%  | 101.6% |
| 3-4  | 55    | 1    | 5    | 96.4%  | 2.4% | 91.6%  | 101.1% |
| 4-5  | 49    | 1    | 3    | 94.3%  | 3.1% | 88.3%  | 100.4% |
| 5-   | 45    | 2    | 43   |        |      |        |        |

sm

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 242   | 5    | 13   | 97.9% | 0.9% | 96.1%  | 99.7% |
| 1-2  | 224   | 2    | 8    | 97.0% | 1.1% | 94.8%  | 99.1% |
| 2-3  | 214   | 3    | 6    | 95.6% | 1.3% | 93.0%  | 98.2% |
| 3-4  | 205   | 4    | 9    | 93.7% | 1.6% | 90.6%  | 96.8% |
| 4-5  | 192   | 2    | 21   | 92.7% | 1.7% | 89.3%  | 96.0% |
| 5-   | 169   | 5    | 164  |       |      |        |       |

mp

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 255   | 2    | 8    | 99.2% | 0.6% | 98.1%  | 100.3% |
| 1-2  | 245   | 1    | 5    | 98.8% | 0.7% | 97.5%  | 100.1% |
| 2-3  | 239   | 3    | 5    | 97.5% | 1.0% | 95.6%  | 99.5%  |
| 3-4  | 231   | 7    | 8    | 94.5% | 1.5% | 91.7%  | 97.4%  |
| 4-5  | 216   | 6    | 22   | 91.8% | 1.8% | 88.3%  | 95.2%  |
| 5-   | 188   | 3    | 185  |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 415   | 10   | 15   | 97.5% | 0.8% | 96.1%  | 99.0% |
| 1-2  | 390   | 9    | 7    | 95.3% | 1.0% | 93.2%  | 97.3% |
| 2-3  | 374   | 11   | 15   | 92.4% | 1.3% | 89.8%  | 95.0% |
| 3-4  | 348   | 9    | 10   | 90.0% | 1.5% | 87.1%  | 92.9% |
| 4-5  | 329   | 6    | 37   | 88.3% | 1.6% | 85.1%  | 91.4% |
| 5-   | 286   | 13   | 273  |       |      |        |       |

se/a2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 139   | 5    | 7    | 96.3% | 1.6% | 93.2%  | 99.4% |
| 1-2  | 127   | 6    | 2    | 91.7% | 2.4% | 87.1%  | 96.3% |
| 2-3  | 119   | 7    | 2    | 86.3% | 3.0% | 80.5%  | 92.1% |
| 3-4  | 110   | 7    | 2    | 80.7% | 3.4% | 74.0%  | 87.5% |
| 4-5  | 101   | 7    | 12   | 74.8% | 3.8% | 67.4%  | 82.2% |
| 5-   | 82    | 10   | 72   |       |      |        |       |

si/ai

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 40    | 2    | 3    | 94.8% | 3.4% | 88.1%  | 101.5% |
| 1-2  | 35    | 0    | 2    | 94.8% | 3.4% | 88.1%  | 101.5% |
| 2-3  | 33    | 3    | 1    | 86.1% | 5.7% | 74.9%  | 97.2%  |
| 3-4  | 29    | 0    | 1    | 86.1% | 5.7% | 74.9%  | 97.2%  |
| 4-5  | 28    | 5    | 2    | 70.1% | 7.7% | 55.0%  | 85.2%  |
| 5-   | 21    | 2    | 19   |       |      |        |        |

Table 88-2

## Microscopic lymph node status of n1 and depth of tumor invasion

## Rectal cancer, surgical cases

n1 &amp; P0, H0, M(-)

m

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

sm

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 28    | 1    | 0    | 96.4% | 3.5% | 89.6%  | 103.3% |
| 1-2  | 27    | 0    | 1    | 96.4% | 3.5% | 89.6%  | 103.3% |
| 2-3  | 26    | 0    | 0    | 96.4% | 3.5% | 89.6%  | 103.3% |
| 3-4  | 26    | 0    | 0    | 96.4% | 3.5% | 89.6%  | 103.3% |
| 4-5  | 26    | 0    | 5    | 96.4% | 3.5% | 89.6%  | 103.3% |
| 5-   | 21    | 3    | 18   |       |      |        |        |

mp

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 65    | 1    | 0    | 98.5% | 1.5% | 95.5%  | 101.5% |
| 1-2  | 64    | 2    | 1    | 95.4% | 2.6% | 90.3%  | 100.5% |
| 2-3  | 61    | 1    | 2    | 93.8% | 3.0% | 87.9%  | 99.6%  |
| 3-4  | 58    | 1    | 3    | 92.1% | 3.3% | 85.6%  | 98.7%  |
| 4-5  | 54    | 1    | 6    | 90.3% | 3.7% | 83.1%  | 97.5%  |
| 5-   | 47    | 1    | 46   |       |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 239   | 3    | 9    | 98.7% | 0.7% | 97.3%  | 100.1% |
| 1-2  | 227   | 8    | 5    | 95.2% | 1.4% | 92.5%  | 97.9%  |
| 2-3  | 214   | 11   | 9    | 90.2% | 1.9% | 86.4%  | 94.0%  |
| 3-4  | 194   | 9    | 9    | 85.9% | 2.3% | 81.4%  | 90.4%  |
| 4-5  | 176   | 10   | 14   | 80.8% | 2.6% | 75.7%  | 86.0%  |
| 5-   | 152   | 14   | 138  |       |      |        |        |

se/a2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 103   | 4    | 4    | 96.0% | 1.9% | 92.3%  | 99.8% |
| 1-2  | 95    | 7    | 3    | 88.8% | 3.1% | 82.7%  | 95.0% |
| 2-3  | 85    | 8    | 1    | 80.4% | 4.0% | 72.6%  | 88.2% |
| 3-4  | 76    | 12   | 3    | 67.5% | 4.7% | 58.2%  | 76.8% |
| 4-5  | 61    | 4    | 5    | 62.9% | 4.9% | 53.3%  | 72.5% |
| 5-   | 52    | 3    | 49   |       |      |        |       |

si/ai

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 20    | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 20    | 4    | 1    | 79.5%  | 8.9%  | 62.1%  | 96.9%  |
| 2-3  | 15    | 0    | 1    | 79.5%  | 8.9%  | 62.1%  | 96.9%  |
| 3-4  | 14    | 2    | 0    | 68.1%  | 10.6% | 47.3%  | 89.0%  |
| 4-5  | 12    | 2    | 1    | 56.3%  | 11.4% | 33.9%  | 78.6%  |
| 5-   | 9     | 1    | 8    |        |       |        |        |

Table 88-3

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

n2 & P0, H0, M(-)

m

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

sm

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 4     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 4     | 1    | 0    | 75.0%  | 21.7% | 32.6%  | 117.4% |
| 2-3  | 3     | 0    | 0    | 75.0%  | 21.7% | 32.6%  | 117.4% |
| 3-4  | 3     | 0    | 0    | 75.0%  | 21.7% | 32.6%  | 117.4% |
| 4-5  | 3     | 0    | 0    | 75.0%  | 21.7% | 32.6%  | 117.4% |
| 5-   | 3     | 0    | 3    |        |       |        |        |

mp

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 15    | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 14    | 2    | 0    | 85.7%  | 9.4% | 67.4%  | 104.0% |
| 2-3  | 12    | 0    | 0    | 85.7%  | 9.4% | 67.4%  | 104.0% |
| 3-4  | 12    | 0    | 0    | 85.7%  | 9.4% | 67.4%  | 104.0% |
| 4-5  | 12    | 0    | 0    | 85.7%  | 9.4% | 67.4%  | 104.0% |
| 5-   | 12    | 1    | 11   |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



ss/al

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 98    | 7    | 5    | 92.7% | 2.6% | 87.6%  | 97.8% |
| 1-2  | 86    | 12   | 1    | 79.7% | 4.1% | 71.6%  | 87.7% |
| 2-3  | 73    | 5    | 4    | 74.1% | 4.5% | 65.3%  | 82.9% |
| 3-4  | 64    | 6    | 3    | 66.9% | 4.9% | 57.4%  | 76.5% |
| 4-5  | 55    | 4    | 3    | 61.9% | 5.1% | 52.0%  | 71.9% |
| 5-   | 48    | 4    | 44   |       |      |        |       |

se/a2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 55    | 8    | 3    | 85.0% | 4.7% | 75.8%  | 94.3% |
| 1-2  | 44    | 3    | 2    | 79.1% | 5.5% | 68.4%  | 89.8% |
| 2-3  | 39    | 3    | 4    | 72.7% | 6.0% | 60.9%  | 84.5% |
| 3-4  | 32    | 5    | 2    | 61.0% | 6.9% | 47.5%  | 74.4% |
| 4-5  | 25    | 4    | 2    | 50.8% | 7.2% | 36.6%  | 65.0% |
| 5-   | 19    | 2    | 17   |       |      |        |       |

si/ai

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 8     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 8     | 2    | 0    | 75.0%  | 15.3% | 45.0%  | 105.0% |
| 2-3  | 6     | 1    | 0    | 62.5%  | 17.1% | 29.0%  | 96.0%  |
| 3-4  | 5     | 1    | 0    | 50.0%  | 17.7% | 15.4%  | 84.6%  |
| 4-5  | 4     | 0    | 2    | 50.0%  | 17.7% | 15.4%  | 84.6%  |
| 5-   | 2     | 0    | 2    |        |       |        |        |

Table 88-4

Microscopic lymph node status of n3 and depth of tumor invasion

Rectal cancer, surgical cases

n3 &amp; P0, H0, M(-)

m

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

sm

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

mp

| Year | Alive | Died | Lost | SR     | SE    | 95% CI        |
|------|-------|------|------|--------|-------|---------------|
| 0-1  | 6     | 0    | 0    | 100.0% | 0.0%  | 100.0% 100.0% |
| 1-2  | 6     | 1    | 0    | 83.3%  | 15.2% | 53.5% 113.2%  |
| 2-3  | 5     | 0    | 0    | 83.3%  | 15.2% | 53.5% 113.2%  |
| 3-4  | 5     | 1    | 0    | 66.7%  | 19.2% | 28.9% 104.4%  |
| 4-5  | 4     | 0    | 0    | 66.7%  | 19.2% | 28.9% 104.4%  |
| 5-   | 4     | 1    | 3    |        |       |               |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/al

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |       |
|------|-------|------|------|-------|-------|--------|-------|
| 0-1  | 21    | 4    | 0    | 81.0% | 8.6%  | 64.2%  | 97.7% |
| 1-2  | 17    | 1    | 0    | 76.2% | 9.3%  | 58.0%  | 94.4% |
| 2-3  | 16    | 1    | 1    | 71.3% | 9.8%  | 52.0%  | 90.6% |
| 3-4  | 14    | 2    | 2    | 60.3% | 10.6% | 39.5%  | 81.1% |
| 4-5  | 10    | 1    | 1    | 54.0% | 11.1% | 32.3%  | 75.7% |
| 5-   | 8     | 0    | 8    |       |       |        |       |

se/a2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 12    | 2    | 0    | 83.3% | 10.8% | 62.2%  | 104.4% |
| 1-2  | 10    | 0    | 0    | 83.3% | 10.8% | 62.2%  | 104.4% |
| 2-3  | 10    | 1    | 0    | 75.0% | 12.5% | 50.5%  | 99.5%  |
| 3-4  | 9     | 0    | 0    | 75.0% | 12.5% | 50.5%  | 99.5%  |
| 4-5  | 9     | 1    | 0    | 66.7% | 13.6% | 40.0%  | 93.3%  |
| 5-   | 8     | 0    | 8    |       |       |        |        |

si/ai

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 5     | 1    | 0    | 80.0% | 17.9% | 44.9%  | 115.1% |
| 1-2  | 4     | 1    | 0    | 60.0% | 21.9% | 17.1%  | 102.9% |
| 2-3  | 3     | 1    | 0    | 40.0% | 21.9% | -2.9%  | 82.9%  |
| 3-4  | 2     | 0    | 0    | 40.0% | 21.9% | -2.9%  | 82.9%  |
| 4-5  | 2     | 0    | 0    | 40.0% | 21.9% | -2.9%  | 82.9%  |
| 5-   | 2     | 0    | 2    |       |       |        |        |

Table 88-5  
 Microscopic lymph node status of n4 and depth of tumor invasion  
 Rectal cancer, surgical cases

n4 & P0, H0, M(-)

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

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

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

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 5     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 5     | 0    | 1    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 2-3  | 4     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 3-4  | 4     | 1    | 0    | 75.0%  | 21.7% | 32.6%  | 117.4% |
| 4-5  | 3     | 0    | 0    | 75.0%  | 21.7% | 32.6%  | 117.4% |
| 5-   | 3     | 1    | 2    |        |       |        |        |

se/a2

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 3     | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 3     | 1    | 0    | 66.7%  | 27.2% | 13.3%  | 120.0% |
| 2-3  | 2     | 1    | 0    | 33.3%  | 27.2% | -20.0% | 86.7%  |
| 3-4  | 1     | 0    | 0    | 33.3%  | 27.2% | -20.0% | 86.7%  |
| 4-5  | 1     | 0    | 0    | 33.3%  | 27.2% | -20.0% | 86.7%  |
| 5-   | 1     | 0    | 1    |        |       |        |        |

si/ai

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |       |
|------|-------|------|------|-------|-------|--------|-------|
| 0-1  | 4     | 2    | 0    | 50.0% | 25.0% | 1.0%   | 99.0% |
| 1-2  | 2     | 1    | 0    | 25.0% | 21.7% | -17.4% | 67.4% |
| 2-3  | 1     | 0    | 0    | 25.0% | 21.7% | -17.4% | 67.4% |
| 3-4  | 1     | 0    | 0    | 25.0% | 21.7% | -17.4% | 67.4% |
| 4-5  | 1     | 1    | 0    | 0.0%  |       |        |       |
| 5-   | 0     | 0    | 0    |       |       |        |       |

Table 89-1

Liver metastasis (synchronous)

Colon cancer, surgical cases

H0

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 3,851 | 122  | 193   | 96.8% | 0.3% | 96.2%  | 97.3% |
| 1-2  | 3,536 | 162  | 141   | 92.2% | 0.4% | 91.4%  | 93.1% |
| 2-3  | 3,233 | 145  | 122   | 88.0% | 0.5% | 87.0%  | 89.1% |
| 3-4  | 2,966 | 96   | 121   | 85.1% | 0.6% | 83.9%  | 86.3% |
| 4-5  | 2,749 | 84   | 297   | 82.4% | 0.6% | 81.1%  | 83.6% |
| 5-   | 2,368 | 135  | 2,233 |       |      |        |       |

H1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 172   | 19   | 11   | 88.6% | 2.4% | 83.9%  | 93.3% |
| 1-2  | 142   | 28   | 9    | 70.5% | 3.5% | 63.7%  | 77.4% |
| 2-3  | 105   | 20   | 6    | 56.7% | 3.9% | 49.1%  | 64.3% |
| 3-4  | 79    | 14   | 2    | 46.5% | 4.0% | 38.7%  | 54.4% |
| 4-5  | 63    | 4    | 2    | 43.5% | 4.0% | 35.7%  | 51.4% |
| 5-   | 57    | 12   | 45   |       |      |        |       |

H2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 108   | 21   | 8    | 79.8% | 3.8% | 72.4%  | 87.2% |
| 1-2  | 79    | 16   | 9    | 62.7% | 4.6% | 53.6%  | 71.7% |
| 2-3  | 54    | 15   | 3    | 44.8% | 5.0% | 34.9%  | 54.6% |
| 3-4  | 36    | 12   | 2    | 29.4% | 4.8% | 20.0%  | 38.8% |
| 4-5  | 22    | 1    | 3    | 28.0% | 4.7% | 18.7%  | 37.3% |
| 5-   | 18    | 2    | 16   |       |      |        |       |

H3

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 242   | 81   | 26   | 64.6% | 2.9% | 58.9%  | 70.4% |
| 1-2  | 135   | 59   | 9    | 35.4% | 3.1% | 29.3%  | 41.6% |
| 2-3  | 67    | 27   | 4    | 20.7% | 2.8% | 15.3%  | 26.1% |
| 3-4  | 36    | 8    | 3    | 15.9% | 2.6% | 10.9%  | 20.9% |
| 4-5  | 25    | 4    | 2    | 13.3% | 2.4% | 8.5%   | 18.0% |
| 5-   | 19    | 5    | 14   |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

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

H0

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 2,511 | 79   | 96    | 96.8% | 0.3% | 96.1%  | 97.5% |
| 1-2  | 2,336 | 104  | 64    | 92.4% | 0.5% | 91.4%  | 93.5% |
| 2-3  | 2,168 | 98   | 66    | 88.2% | 0.7% | 86.9%  | 89.5% |
| 3-4  | 2,004 | 89   | 75    | 84.2% | 0.7% | 82.7%  | 85.6% |
| 4-5  | 1,840 | 80   | 186   | 80.3% | 0.8% | 78.7%  | 81.9% |
| 5-   | 1,574 | 85   | 1,489 |       |      |        |       |

H1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 105   | 17   | 4    | 83.5% | 3.6% | 76.5%  | 90.5% |
| 1-2  | 84    | 14   | 4    | 69.2% | 4.5% | 60.4%  | 78.1% |
| 2-3  | 66    | 13   | 2    | 55.4% | 4.9% | 45.7%  | 65.1% |
| 3-4  | 51    | 6    | 2    | 48.7% | 5.0% | 38.9%  | 58.6% |
| 4-5  | 43    | 4    | 4    | 44.0% | 5.0% | 34.2%  | 53.8% |
| 5-   | 35    | 4    | 31   |       |      |        |       |

H2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 62    | 10   | 3    | 83.5% | 4.6% | 74.4%  | 92.6% |
| 1-2  | 49    | 16   | 2    | 55.6% | 6.3% | 43.2%  | 68.1% |
| 2-3  | 31    | 11   | 1    | 35.6% | 6.2% | 23.4%  | 47.8% |
| 3-4  | 19    | 9    | 1    | 18.3% | 5.1% | 8.3%   | 28.3% |
| 4-5  | 9     | 3    | 1    | 11.8% | 4.3% | 3.4%   | 20.3% |
| 5-   | 5     | 3    | 2    |       |      |        |       |

H3

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 103   | 30   | 7    | 69.8% | 4.4% | 61.2%  | 78.5% |
| 1-2  | 66    | 26   | 5    | 41.2% | 4.9% | 31.7%  | 50.8% |
| 2-3  | 35    | 12   | 2    | 26.7% | 4.5% | 17.8%  | 35.6% |
| 3-4  | 21    | 5    | 4    | 19.7% | 4.1% | 11.6%  | 27.7% |
| 4-5  | 12    | 4    | 0    | 13.1% | 3.8% | 5.6%   | 20.6% |
| 5-   | 8     | 5    | 3    |       |      |        |       |

Table 90-1

## Peritoneal metastasis (synchronous)

## Colon cancer, surgical cases

P0

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 4,145 | 178  | 216   | 95.6% | 0.3% | 95.0%  | 96.2% |
| 1-2  | 3,751 | 217  | 155   | 89.9% | 0.5% | 89.0%  | 90.9% |
| 2-3  | 3,379 | 178  | 127   | 85.1% | 0.6% | 84.0%  | 86.2% |
| 3-4  | 3,074 | 123  | 123   | 81.6% | 0.6% | 80.4%  | 82.9% |
| 4-5  | 2,828 | 84   | 302   | 79.1% | 0.7% | 77.8%  | 80.4% |
| 5-   | 2,442 | 147  | 2,295 |       |      |        |       |

P1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 103   | 22   | 10   | 77.6% | 4.0% | 69.7%  | 85.4% |
| 1-2  | 71    | 21   | 6    | 53.6% | 5.0% | 43.9%  | 63.3% |
| 2-3  | 44    | 8    | 3    | 43.5% | 5.1% | 33.6%  | 53.5% |
| 3-4  | 33    | 4    | 4    | 37.9% | 5.1% | 28.0%  | 47.8% |
| 4-5  | 25    | 5    | 2    | 30.0% | 5.0% | 20.2%  | 39.8% |
| 5-   | 18    | 5    | 13   |       |      |        |       |

P2

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 58    | 13   | 4    | 76.8% | 5.4% | 66.2%  | 87.4% |
| 1-2  | 41    | 14   | 2    | 49.9% | 6.6% | 36.9%  | 62.9% |
| 2-3  | 25    | 15   | 2    | 18.7% | 5.2% | 8.5%   | 28.9% |
| 3-4  | 8     | 2    | 0    | 14.0% | 4.8% | 4.5%   | 23.5% |
| 4-5  | 6     | 2    | 0    | 9.4%  | 4.2% | 1.1%   | 17.6% |
| 5-   | 4     | 2    | 2    |       |      |        |       |

P3

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 76    | 28   | 9    | 60.8% | 5.3% | 50.4%  | 71.3% |
| 1-2  | 39    | 15   | 4    | 36.2% | 5.6% | 25.3%  | 47.1% |
| 2-3  | 20    | 7    | 4    | 22.1% | 5.0% | 12.4%  | 31.9% |
| 3-4  | 9     | 1    | 1    | 19.5% | 5.0% | 9.8%   | 29.2% |
| 4-5  | 7     | 3    | 1    | 10.5% | 4.4% | 2.0%   | 19.0% |
| 5-   | 3     | 0    | 3    |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



Table 90-2

Peritoneal metastasis (synchronous)

Rectal cancer, surgical cases

P0

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 2,713 | 120  | 106   | 95.5% | 0.4% | 94.7%  | 96.3% |
| 1-2  | 2,487 | 142  | 71    | 90.0% | 0.6% | 88.8%  | 91.1% |
| 2-3  | 2,274 | 129  | 70    | 84.8% | 0.7% | 83.4%  | 86.1% |
| 3-4  | 2,075 | 103  | 82    | 80.5% | 0.8% | 79.0%  | 82.0% |
| 4-5  | 1,890 | 89   | 191   | 76.5% | 0.8% | 74.9%  | 78.1% |
| 5-   | 1,610 | 96   | 1,514 |       |      |        |       |

P1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 41    | 5    | 2    | 87.5% | 5.1% | 77.5%  | 97.5% |
| 1-2  | 34    | 16   | 2    | 45.1% | 7.7% | 29.9%  | 60.3% |
| 2-3  | 16    | 3    | 0    | 36.6% | 7.7% | 21.6%  | 51.7% |
| 3-4  | 13    | 4    | 0    | 25.4% | 7.1% | 11.5%  | 39.2% |
| 4-5  | 9     | 1    | 0    | 22.5% | 6.8% | 9.1%   | 35.9% |
| 5-   | 8     | 1    | 7    |       |      |        |       |

P2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |       |
|------|-------|------|------|-------|-------|--------|-------|
| 0-1  | 7     | 5    | 0    | 28.6% | 17.1% | -4.9%  | 62.0% |
| 1-2  | 2     | 0    | 0    | 28.6% | 17.1% | -4.9%  | 62.0% |
| 2-3  | 2     | 0    | 1    | 28.6% | 17.1% | -4.9%  | 62.0% |
| 3-4  | 1     | 0    | 0    | 28.6% | 17.1% | -4.9%  | 62.0% |
| 4-5  | 1     | 1    | 0    | 0.0%  |       |        |       |
| 5-   | 0     | 0    | 0    |       |       |        |       |

P3

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |       |
|------|-------|------|------|-------|-------|--------|-------|
| 0-1  | 11    | 3    | 1    | 71.4% | 13.2% | 45.6%  | 97.3% |
| 1-2  | 7     | 2    | 2    | 47.6% | 14.4% | 19.4%  | 75.8% |
| 2-3  | 3     | 0    | 0    | 47.6% | 14.4% | 19.4%  | 75.8% |
| 3-4  | 3     | 2    | 1    | 9.5%  | 8.3%  | -6.7%  | 25.8% |
| 4-5  | 0     | 0    | 0    |       |       |        |       |
| 5-   | 0     | 0    | 0    |       |       |        |       |

Table 91-1  
Lung metastasis (synchronous)  
Colon cancer, surgical cases

PM0

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 3,570 | 184  | 196   | 94.7% | 0.4% | 94.0%  | 95.4% |
| 1-2  | 3,190 | 197  | 146   | 88.7% | 0.5% | 87.7%  | 89.8% |
| 2-3  | 2,847 | 163  | 117   | 83.5% | 0.6% | 82.3%  | 84.8% |
| 3-4  | 2,567 | 107  | 107   | 80.0% | 0.7% | 78.6%  | 81.3% |
| 4-5  | 2,353 | 81   | 253   | 77.1% | 0.7% | 75.6%  | 78.5% |
| 5-   | 2,019 | 126  | 1,893 |       |      |        |       |

PM1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 61    | 14   | 5    | 76.1% | 5.3% | 65.6%  | 86.5% |
| 1-2  | 42    | 14   | 2    | 50.1% | 6.5% | 37.4%  | 62.8% |
| 2-3  | 26    | 8    | 1    | 34.4% | 6.3% | 22.0%  | 46.8% |
| 3-4  | 17    | 2    | 4    | 29.8% | 6.1% | 17.9%  | 41.7% |
| 4-5  | 11    | 2    | 1    | 24.1% | 6.0% | 12.4%  | 35.9% |
| 5-   | 8     | 3    | 5    |       |      |        |       |

PM2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |       |
|------|-------|------|------|-------|-------|--------|-------|
| 0-1  | 21    | 3    | 7    | 82.9% | 7.4%  | 68.4%  | 97.3% |
| 1-2  | 11    | 1    | 2    | 74.6% | 9.7%  | 55.5%  | 93.6% |
| 2-3  | 8     | 2    | 1    | 54.7% | 13.2% | 28.7%  | 80.7% |
| 3-4  | 5     | 1    | 1    | 42.5% | 14.0% | 15.0%  | 70.0% |
| 4-5  | 3     | 0    | 0    | 42.5% | 14.0% | 15.0%  | 70.0% |
| 5-   | 3     | 2    | 1    |       |       |        |       |

PM3

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 49    | 17   | 2    | 64.6% | 6.7% | 51.4%  | 77.8% |
| 1-2  | 30    | 17   | 0    | 28.0% | 6.5% | 15.2%  | 40.8% |
| 2-3  | 13    | 5    | 2    | 16.3% | 5.2% | 6.1%   | 26.6% |
| 3-4  | 6     | 4    | 0    | 5.4%  | 3.6% | -1.6%  | 12.5% |
| 4-5  | 2     | 0    | 1    | 5.4%  | 3.6% | -1.6%  | 12.5% |
| 5-   | 1     | 0    | 1    |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

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

PM0

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 2,174 | 110  | 93    | 94.8% | 0.5% | 93.9%  | 95.7% |
| 1-2  | 1,971 | 115  | 58    | 89.2% | 0.7% | 87.9%  | 90.5% |
| 2-3  | 1,798 | 95   | 62    | 84.4% | 0.8% | 82.9%  | 86.0% |
| 3-4  | 1,641 | 87   | 66    | 79.9% | 0.9% | 78.1%  | 81.6% |
| 4-5  | 1,488 | 67   | 151   | 76.1% | 0.9% | 74.2%  | 77.9% |
| 5-   | 1,270 | 79   | 1,191 |       |      |        |       |

PM1

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 45    | 5    | 6    | 88.1% | 4.6% | 79.0%  | 97.2% |
| 1-2  | 34    | 11   | 1    | 59.2% | 7.7% | 44.1%  | 74.2% |
| 2-3  | 22    | 5    | 0    | 45.7% | 7.9% | 30.1%  | 61.3% |
| 3-4  | 17    | 2    | 1    | 40.2% | 7.8% | 24.8%  | 55.5% |
| 4-5  | 14    | 1    | 1    | 37.2% | 7.8% | 22.0%  | 52.4% |
| 5-   | 12    | 4    | 8    |       |      |        |       |

PM2

| Year | Alive | Died | Lost | SR    | SE    | 95% CI |        |
|------|-------|------|------|-------|-------|--------|--------|
| 0-1  | 20    | 2    | 0    | 90.0% | 6.7%  | 76.9%  | 103.1% |
| 1-2  | 18    | 5    | 1    | 64.3% | 10.5% | 43.6%  | 85.0%  |
| 2-3  | 12    | 3    | 0    | 48.2% | 11.3% | 26.1%  | 70.3%  |
| 3-4  | 9     | 2    | 0    | 37.5% | 11.0% | 15.9%  | 59.1%  |
| 4-5  | 7     | 2    | 1    | 26.0% | 9.8%  | 6.7%   | 45.2%  |
| 5-   | 4     | 1    | 3    |       |       |        |        |

PM3

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 34    | 4    | 3    | 87.7% | 5.5% | 76.9%  | 98.5% |
| 1-2  | 27    | 11   | 2    | 50.6% | 8.7% | 33.6%  | 67.6% |
| 2-3  | 14    | 6    | 0    | 28.9% | 8.3% | 12.6%  | 45.2% |
| 3-4  | 8     | 3    | 0    | 18.1% | 7.2% | 4.0%   | 32.1% |
| 4-5  | 5     | 2    | 1    | 10.0% | 5.4% | -0.6%  | 20.7% |
| 5-   | 2     | 0    | 2    |       |      |        |       |

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

| M(-) |       |      |       |       |      |        |       |
|------|-------|------|-------|-------|------|--------|-------|
| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
| 0-1  | 4,093 | 203  | 218   | 94.9% | 0.3% | 94.2%  | 95.6% |
| 1-2  | 3,672 | 236  | 157   | 88.7% | 0.5% | 87.7%  | 89.6% |
| 2-3  | 3,279 | 183  | 127   | 83.6% | 0.6% | 82.5%  | 84.8% |
| 3-4  | 2,969 | 125  | 127   | 80.0% | 0.6% | 78.8%  | 81.3% |
| 4-5  | 2,717 | 90   | 296   | 77.2% | 0.7% | 75.9%  | 78.6% |
| 5-   | 2,331 | 140  | 2,191 |       |      |        |       |

  

| M(+) |       |      |      |       |      |        |       |
|------|-------|------|------|-------|------|--------|-------|
| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
| 0-1  | 104   | 27   | 12   | 72.4% | 4.2% | 64.2%  | 80.7% |
| 1-2  | 65    | 23   | 5    | 45.8% | 5.0% | 36.0%  | 55.5% |
| 2-3  | 37    | 9    | 5    | 33.8% | 4.8% | 24.3%  | 43.3% |
| 3-4  | 23    | 1    | 0    | 32.4% | 4.9% | 22.9%  | 41.9% |
| 4-5  | 22    | 2    | 0    | 29.4% | 4.8% | 19.9%  | 38.9% |
| 5-   | 20    | 5    | 15   |       |      |        |       |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 92-2

Distant metastasis (synchronous)

Rectal cancer, surgical cases

M(-)

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 2,548 | 119  | 100   | 95.2% | 0.4% | 94.4%  | 96.1% |
| 1-2  | 2,329 | 140  | 68    | 89.4% | 0.6% | 88.2%  | 90.6% |
| 2-3  | 2,121 | 117  | 68    | 84.4% | 0.7% | 83.0%  | 85.8% |
| 3-4  | 1,936 | 99   | 78    | 80.0% | 0.8% | 78.4%  | 81.6% |
| 4-5  | 1,759 | 80   | 178   | 76.2% | 0.9% | 74.5%  | 77.9% |
| 5-   | 1,501 | 92   | 1,409 |       |      |        |       |

M(+)

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 61    | 14   | 5    | 76.1% | 5.3% | 65.6%  | 86.5% |
| 1-2  | 42    | 12   | 2    | 53.8% | 6.5% | 41.1%  | 66.5% |
| 2-3  | 28    | 5    | 2    | 43.8% | 6.5% | 31.0%  | 56.6% |
| 3-4  | 21    | 2    | 1    | 39.6% | 6.5% | 26.8%  | 52.3% |
| 4-5  | 18    | 1    | 3    | 37.2% | 6.5% | 24.5%  | 49.9% |
| 5-   | 14    | 1    | 13   |       |      |        |       |

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

m

Males and females

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 125   | 2    | 23   | 98.2% | 1.1% | 96.0%  | 100.4% |
| 1-2  | 100   | 1    | 7    | 97.2% | 1.5% | 94.3%  | 100.1% |
| 2-3  | 92    | 2    | 5    | 95.0% | 2.1% | 91.0%  | 99.1%  |
| 3-4  | 85    | 0    | 4    | 95.0% | 2.1% | 91.0%  | 99.1%  |
| 4-5  | 81    | 0    | 2    | 95.0% | 2.1% | 91.0%  | 99.1%  |
| 5-   | 79    | 4    | 75   |       |      |        |        |

Males

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |        |
|------|-------|------|------|-------|------|--------|--------|
| 0-1  | 84    | 2    | 16   | 97.4% | 1.7% | 94.1%  | 100.6% |
| 1-2  | 66    | 1    | 4    | 95.8% | 2.2% | 91.5%  | 100.1% |
| 2-3  | 61    | 1    | 2    | 94.2% | 2.7% | 89.0%  | 99.5%  |
| 3-4  | 58    | 0    | 3    | 94.2% | 2.7% | 89.0%  | 99.5%  |
| 4-5  | 55    | 0    | 1    | 94.2% | 2.7% | 89.0%  | 99.5%  |
| 5-   | 54    | 3    | 51   |       |      |        |        |

Females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 41    | 0    | 7    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 34    | 0    | 3    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 31    | 1    | 3    | 96.6%  | 3.2% | 90.4%  | 102.8% |
| 3-4  | 27    | 0    | 1    | 96.6%  | 3.2% | 90.4%  | 102.8% |
| 4-5  | 26    | 0    | 1    | 96.6%  | 3.2% | 90.4%  | 102.8% |
| 5-   | 25    | 1    | 24   |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

sm

Males and females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 24    | 0    | 4    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 20    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 20    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 3-4  | 20    | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 4-5  | 19    | 1    | 3    | 94.3%  | 5.1% | 84.3%  | 104.3% |
| 5-   | 15    | 2    | 13   |        |      |        |        |

Males

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 14    | 0    | 3    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 11    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 11    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 3-4  | 11    | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 4-5  | 11    | 1    | 1    | 90.5%  | 8.6% | 73.6%  | 107.4% |
| 5-   | 9     | 1    | 8    |        |      |        |        |

Females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 10    | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 9     | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 9     | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 3-4  | 9     | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 4-5  | 8     | 0    | 2    | 100.0% | 0.0% | 100.0% | 100.0% |
| 5-   | 6     | 1    | 5    |        |      |        |        |

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

m

Males and females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 38    | 0    | 5    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 33    | 1    | 6    | 96.7%  | 3.0% | 90.8%  | 102.5% |
| 2-3  | 26    | 0    | 0    | 96.7%  | 3.0% | 90.8%  | 102.5% |
| 3-4  | 26    | 1    | 5    | 92.6%  | 4.6% | 83.5%  | 101.6% |
| 4-5  | 20    | 0    | 2    | 92.6%  | 4.6% | 83.5%  | 101.6% |
| 5-   | 18    | 1    | 17   |        |      |        |        |

Males

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 26    | 0    | 3    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 23    | 1    | 3    | 95.3%  | 4.2% | 87.0%  | 103.7% |
| 2-3  | 19    | 0    | 0    | 95.3%  | 4.2% | 87.0%  | 103.7% |
| 3-4  | 19    | 1    | 4    | 89.7%  | 6.3% | 77.4%  | 102.1% |
| 4-5  | 14    | 0    | 1    | 89.7%  | 6.3% | 77.4%  | 102.1% |
| 5-   | 13    | 1    | 12   |        |      |        |        |

Females

| Year | Alive | Died | Lost | SR     | SE   | 95% CI |        |
|------|-------|------|------|--------|------|--------|--------|
| 0-1  | 12    | 0    | 2    | 100.0% | 0.0% | 100.0% | 100.0% |
| 1-2  | 10    | 0    | 3    | 100.0% | 0.0% | 100.0% | 100.0% |
| 2-3  | 7     | 0    | 0    | 100.0% | 0.0% | 100.0% | 100.0% |
| 3-4  | 7     | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 4-5  | 6     | 0    | 1    | 100.0% | 0.0% | 100.0% | 100.0% |
| 5-   | 5     | 0    | 5    |        |      |        |        |

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval



sm

# Males and females

| Year | Alive | Died | Lost | SR     | SE    | 95% CI |        |
|------|-------|------|------|--------|-------|--------|--------|
| 0-1  | 11    | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 1-2  | 11    | 0    | 0    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 2-3  | 11    | 0    | 2    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 3-4  | 9     | 0    | 2    | 100.0% | 0.0%  | 100.0% | 100.0% |
| 4-5  | 7     | 1    | 0    | 85.7%  | 13.2% | 59.8%  | 111.6% |
| 5-   | 6     | 0    | 6    |        |       |        |        |

# Males

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

# Females

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

Table 94(a)

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

## Colon cancer

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 3,426 | 246  | 0     | 92.8% | 0.4% | 92.0%  | 93.7% |
| 1-2  | 3,180 | 268  | 0     | 85.0% | 0.6% | 83.8%  | 86.2% |
| 2-3  | 2,912 | 208  | 0     | 78.9% | 0.7% | 77.6%  | 80.3% |
| 3-4  | 2,704 | 130  | 0     | 75.1% | 0.7% | 73.7%  | 76.6% |
| 4-5  | 2,574 | 94   | 0     | 72.4% | 0.8% | 70.9%  | 73.9% |
| 5-   | 2,480 | 154  | 2,326 |       |      |        |       |

## Rectal cancer

| Year | Alive | Died | Lost  | SR    | SE   | 95% CI |       |
|------|-------|------|-------|-------|------|--------|-------|
| 0-1  | 2,267 | 137  | 0     | 94.0% | 0.5% | 93.0%  | 94.9% |
| 1-2  | 2,130 | 163  | 0     | 86.8% | 0.7% | 85.4%  | 88.2% |
| 2-3  | 1,967 | 135  | 0     | 80.8% | 0.8% | 79.2%  | 82.4% |
| 3-4  | 1,832 | 109  | 0     | 76.0% | 0.9% | 74.2%  | 77.8% |
| 4-5  | 1,723 | 92   | 0     | 71.9% | 0.9% | 70.1%  | 73.8% |
| 5-   | 1,631 | 98   | 1,533 |       |      |        |       |

※一般解析に採用されたレコードの90%以上が生存分析に用いられた施設に限定

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year; Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 94(b)

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

## Colon cancer

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 823   | 55   | 4    | 93.3% | 0.9% | 91.6%  | 95.0% |
| 1-2  | 764   | 50   | 3    | 87.2% | 1.2% | 84.9%  | 89.5% |
| 2-3  | 711   | 50   | 6    | 81.0% | 1.4% | 78.3%  | 83.7% |
| 3-4  | 655   | 27   | 3    | 77.7% | 1.5% | 74.8%  | 80.5% |
| 4-5  | 625   | 24   | 10   | 74.7% | 1.5% | 71.7%  | 77.7% |
| 5-   | 591   | 45   | 546  |       |      |        |       |

## Rectal cancer

| Year | Alive | Died | Lost | SR    | SE   | 95% CI |       |
|------|-------|------|------|-------|------|--------|-------|
| 0-1  | 447   | 30   | 2    | 93.3% | 1.2% | 91.0%  | 95.6% |
| 1-2  | 415   | 33   | 3    | 85.8% | 1.6% | 82.6%  | 89.1% |
| 2-3  | 379   | 25   | 0    | 80.2% | 1.9% | 76.5%  | 83.9% |
| 3-4  | 354   | 21   | 2    | 75.4% | 2.0% | 71.4%  | 79.4% |
| 4-5  | 331   | 26   | 7    | 69.4% | 2.2% | 65.1%  | 73.7% |
| 5-   | 298   | 25   | 273  |       |      |        |       |

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

## Participating institutes

相澤病院 外科  
愛知県がんセンター愛知病院 外科  
愛知県がんセンター中央病院 消化器外科  
岩手医科大学 外科  
大分大学医学部 消化器外科  
大阪府立急性期・総合医療センター 外科  
大阪府立成人病センター 消化器外科  
大阪労災病院 外科  
岡山済生会総合病院  
岡山大学大学院 呼吸器乳腺内分泌外科  
岡山大学大学院 消化器外科学  
香川大学 消化器外科  
神奈川県立がんセンター 大腸外科  
金沢医科大学病院 一般消化器外科  
がん・感染症センター都立駒込病院 外科  
北里大学 外科  
北里大学東病院 消化器外科  
岐阜大学 腫瘍外科  
京都大学 消化管外科  
京都府立医科大学 消化器外科  
杏林大学 消化器・一般外科  
近畿大学 外科\*  
近畿中央病院 外科  
熊本市民病院 外科  
熊本大学 消化器外科学  
倉敷中央病院 外科  
久留米大学医療センター 外科  
久留米大学 外科  
神戸大学 食道胃腸外科  
国立がん研究センター中央病院 外科  
国立がん研究センター東病院  
国立国際医療研究センター 外科  
国立病院機構岩国医療センター 外科  
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国立病院機構埼玉病院  
済生会山形済生病院 外科  
さいたま赤十字病院 外科

札幌医科大学 第1外科  
 JAとりで総合医療センター 外科  
 静岡県立静岡がんセンター 大腸外科  
 順天堂大学 下部消化管外科  
 市立岸和田市民病院 外科  
 市立堺病院  
 市立吹田市民病院  
 大腸肛門病センターくるめ病院 外科  
 大腸肛門病センター 高野病院  
 千葉県がんセンター 消化器外科  
 東京医科歯科大学 腫瘍外科  
 東京医科大学茨城医療センター 外科  
 東京大学 腫瘍外科  
 東邦大学医療センター大橋病院 外科\*  
 東邦大学大森病院  
 徳島大学 消化器移植外科  
 栃木県立がんセンター  
 獨協医科大学 第1外科  
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 福井大学 第1外科  
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 不二越病院 外科  
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 防衛医科大学校 外科  
 北海道大学 消化器外科  
 松下記念病院 外科  
 松田病院 胃腸・肛門科  
 松波総合病院 外科  
 三重大学 消化管・小児外科学  
 三沢市立三沢病院  
 宮城県立がんセンター\*  
 山形大学 第1外科  
 山口大学 第2外科  
 りんくう総合医療センター  
 和歌山県立医科大学 第2外科

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