

## A. 国立がんセンター中央病院における初回入院時の同時性多重がんの発生頻度と割合(%)

Number and Percentages(%)<sup>\*</sup> of synchronous multiple primary cancers on the first admission to the National Cancer Center Hospital  
男(Males)

| 第1部位<br>(入院時)<br>First cancer sites | 患者数<br>Cases | 重複がん数<br>MPC<br>Cases | 第2部位(入院時) Second cancer sites |                 |              |             |              |            |              |           |                 |               |              |                |                  |
|-------------------------------------|--------------|-----------------------|-------------------------------|-----------------|--------------|-------------|--------------|------------|--------------|-----------|-----------------|---------------|--------------|----------------|------------------|
|                                     |              |                       | 口腔咽頭<br>Oropharynx            | 食道<br>Esophagus | 胃<br>Stomach | 結腸<br>Colon | 直腸<br>Rectum | 肝<br>Liver | 喉頭<br>Larynx | 肺<br>Lung | 前立腺<br>Prostate | 膀胱<br>Bladder | 腎臓<br>Kidney | 甲状腺<br>Thyroid | 全多重がん<br>All MPC |
| 口腔咽頭<br>Oropharynx                  | 2,204        | 216                   | 4.4                           | 1.9             | 0.4          | 0.1         | 0.3          | 1.0        | 0.8          | 0.3       | 0.1             | 0.2           | 0.3          | 9.8            |                  |
| 食道<br>Esophagus                     | 2,031        | 314                   | 98(4.8)                       |                 | 6.1          | 0.7         | 0.3          | 0.3        | 0.7          | 1.3       | 0.2             | 0.2           | 0.6          | 15.5           |                  |
| 胃<br>Stomach                        | 6,916        | 539                   | 41(0.6)                       | 124(1.8)        |              | 1.1         | 0.4          | 0.8        | 0.3          | 1.7       | 0.4             | 0.3           | 0.3          | 7.8            |                  |
| 結腸<br>Colon                         | 1,534        | 249                   | 9(0.6)                        | 15(1.0)         | 75(4.9)      |             | 4.1          | 0.9        | 0.5          | 2.0       | 0.8             | 0.3           | 0.5          | 0.7            | 16.2             |
| 直腸<br>Rectum                        | 1,325        | 149                   | 3(0.2)                        | 6(0.5)          | 30(2.3)      | 63(4.8)     |              | 1.0        | 0.3          | 1.3       | 0.4             | 0.3           | 0.3          | 0.0            | 11.2             |
| 肝<br>Liver                          | 1,751        | 145                   | 6(0.3)                        | 6(0.3)          | 55(3.1)      | 14(0.8)     | 13(0.7)      |            | 0.6          | 1.0       | 0.4             | 0.3           | 0.3          | 0.3            | 8.3              |
| 喉頭<br>Larynx                        | 921          | 128                   | 21(2.3)                       | 14(1.5)         | 20(2.2)      | 8(0.9)      | 4(0.4)       | 11(1.2)    |              | 3.4       | 0.1             | 0.7           | 0.4          | 0.9            | 13.9             |
| 肺<br>Lung                           | 5,252        | 333                   | 18(0.3)                       | 26(0.5)         | 115(2.2)     | 30(0.6)     | 17(0.3)      | 17(0.3)    | 31(0.6)      |           | 0.7             | 0.3           | 0.3          | 0.2            | 6.3              |
| 前立腺<br>Prostate                     | 590          | 126                   | 6(1.0)                        | 4(0.7)          | 26(4.4)      | 12(2.0)     | 5(0.8)       | 7(1.2)     | 1(0.2)       | 35(5.9)   |                 | 4.1           | 0.7          | 0.3            | 21.4             |
| 膀胱<br>Bladder                       | 759          | 126                   | 3(0.4)                        | 4(0.5)          | 23(3.0)      | 5(0.7)      | 4(0.5)       | 5(0.7)     | 6(0.8)       | 14(1.8)   | 24(3.2)         |               | 4.9          | 0.1            | 16.6             |
| 腎臓<br>Kidney                        | 506          | 110                   | 5(1.0)                        | 5(1.0)          | 19(3.8)      | 7(1.4)      | 4(0.8)       | 5(1.0)     | 4(0.8)       | 18(3.6)   | 4(0.8)          | 37(7.3)       |              | 0.4            | 21.7             |
| 甲状腺<br>Thyroid gland                | 308          | 71                    | 6(1.9)                        | 12(3.9)         | 11(3.6)      | 11(3.6)     | 0(0.0)       | 6(1.9)     | 8(2.6)       | 12(3.9)   | 2(0.6)          | 1(0.3)        | 2(0.6)       |                | 23.1             |

\* 発生頻度割合：第1部位のがんで入院した患者のうち第2部位のがんを同時性多重がんとして有した者の割合

Percentage: Percentage of cases of multiple primary cancer among all cases with cancer at a certain site.

## B. 国立がんセンター中央病院における異時性多重がんの発生頻度(初回入院以後の他がんの発生)

Frequency of metachronous multiple primary cancers in the National Cancer Center Hospital Registry

男(Males)

| 第1部位<br>(入院時單一がん)<br>Site of initial primary cancer | 総数<br>Cases | 第2部位 Second cancer sites |                 |              |             |              |            |              |           |                 |               |              | 全多重がん<br>All MPC |         |
|---|-------------|--------------------------|-----------------|--------------|-------------|--------------|------------|--------------|-----------|-----------------|---------------|--------------|------------------|---------|
|   |             | 口腔咽頭<br>Oropharynx       | 食道<br>Esophagus | 胃<br>Stomach | 結腸<br>Colon | 直腸<br>Rectum | 肝<br>Liver | 喉頭<br>Larynx | 肺<br>Lung | 前立腺<br>Prostate | 膀胱<br>Bladder | 腎臓<br>Kidney |                  |         |
| 口腔咽頭<br>Oropharynx                                  | 1,979       | 0(0.0)                   | 18(0.9)         | 16(0.8)      | 6(0.3)      | 2(0.1)       | 1(0.1)     | 3(0.2)       | 5(0.3)    | 2(0.1)          | 2(0.1)        | 1(0.1)       | 1(0.1)           | 57(2.9) |
| 食道<br>Esophagus                                     | 1,705       | 8(0.5)                   | 0(0.0)          | 10(0.6)      | 1(0.1)      | 1(0.1)       | 1(0.1)     | 3(0.2)       | 4(0.2)    | 4(0.2)          | 3(0.2)        | 2(0.1)       | 2(0.1)           | 39(2.3) |
| 胃<br>Stomach  | 6,309       | 1(0.0)                   | 15(0.2)         | 0(0.0)       | 16(0.3)     | 8(0.1)       | 5(0.1)     | 3(0.0)       | 21(0.3)   | 6(0.1)          | 5(0.1)        | 1(0.0)       | 4(0.1)           | 85(1.3) |
| 結腸<br>Colon   | 1,271       | 0(0.0)                   | 0(0.0)          | 7(0.6)       | 0(0.0)      | 5(0.4)       | 0(0.0)     | 0(0.0)       | 1(0.1)    | 1(0.1)          | 1(0.1)        | 1(0.1)       | 2(0.2)           | 18(1.4) |
| 直腸<br>Rectum  | 1,239       | 1(0.1)                   | 1(0.1)          | 10(0.8)      | 6(0.5)      | 0(0.0)       | 2(0.2)     | 1(0.1)       | 0(0.0)    | 4(0.3)          | 2(0.2)        | 0(0.0)       | 0(0.0)           | 27(2.2) |
| 肝<br>Liver  | 1,726       | 0(0.0)                   | 0(0.0)          | 3(0.2)       | 0(0.0)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 1(0.1)    | 1(0.1)          | 0(0.0)        | 0(0.0)       | 0(0.0)           | 5(0.3)  |
| 喉頭<br>Larynx  | 796         | 10(1.3)                  | 10(1.3)         | 10(1.3)      | 3(0.4)      | 2(0.3)       | 1(0.1)     | 0(0.0)       | 17(2.1)   | 2(0.3)          | 2(0.3)        | 0(0.0)       | 3(0.4)           | 60(7.5) |
| 肺<br>Lung   | 4,883       | 3(0.1)                   | 4(0.1)          | 16(0.3)      | 2(0.0)      | 1(0.0)       | 4(0.1)     | 2(0.0)       | 0(0.0)    | 4(0.1)          | 5(0.1)        | 3(0.1)       | 2(0.0)           | 46(0.9) |
| 前立腺<br>Prostate                                     | 453         | 0(0.0)                   | 0(0.0)          | 2(0.4)       | 0(0.0)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 0(0.0)    | 0(0.0)          | 0(0.0)        | 1(0.2)       | 0(0.0)           | 3(0.7)  |
| 膀胱<br>Bladder                                       | 627         | 0(0.0)                   | 1(0.2)          | 5(0.8)       | 3(0.5)      | 0(0.0)       | 1(0.2)     | 0(0.0)       | 3(0.5)    | 3(0.5)          | 0(0.0)        | 2(0.3)       | 0(0.0)           | 18(2.9) |
| 腎臓<br>Kidney  | 392         | 0(0.0)                   | 0(0.0)          | 3(0.8)       | 0(0.0)      | 1(0.3)       | 0(0.0)     | 1(0.3)       | 1(0.3)    | 0(0.0)          | 0(0.0)        | 0(0.0)       | 0(0.0)           | 7(1.8)  |
| 甲状腺<br>Thyroid gland                                | 224         | 0(0.0)                   | 0(0.0)          | 1(0.4)       | 2(0.9)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 0(0.0)    | 1(0.4)          | 0(0.0)        | 0(0.0)       | 0(0.0)           | 4(1.8)  |

( ) 内は、総患者数に対する第2部位を罹患した患者の割合

Number in parentheses : Percentages of the second cancer among all cancer at a certain site.

## C. 有意な関連を示す多重がんの組み合わせ

Significant site-relationships in synchronous and metachronous multiple primary cancers

| がん部位<br>cancer sites  | 同時性がん<br>synchronous cases |                     | 異時性がん<br>metachronous cases |                     |
|---|----------------------------|---------------------|-----------------------------|---------------------|
|   | オッズ比<br>Odds ratios        | 危険度比<br>Rate ratios | オッズ比<br>Odds ratios         | 危険度比<br>Rate ratios |
| 1) 同時性・異時性ともにリスク増加が認められた組み合わせ Site-combinations,in which the risks of both synchronous and metachronous MPCs are significantly elevated |                            |                     |                             |                     |
| 口腔咽頭 oropharynx 食道 esophagus  | 4.9                        | 8.2                 | 4.9                         | 1.0                 |
| 口腔咽頭 oropharynx 喉頭 larynx   |                            | 2.3                 | 3.2                         | 1.0                 |
| 結腸 colon 直腸 rectum  | 8.1                        | 5.6                 | 6.0*                        | 3.2*                |
| 2) 同時性のみリスク増加が認められた組み合わせ Site-combinations,in which only risks of synchronous MPC are significantly elevated                            |                            |                     |                             |                     |
| 口腔咽頭 oropharynx 甲状腺 thyroid gland   | 1.7                        | 5.0                 | 0.7                         | 1.0                 |
| 食道 esophagus 胃 stomach  | 2.2                        | 1.7                 | 1.8                         | 0.6                 |
| 喉頭 larynx 甲状腺 thyroid gland   | 2.3                        | 4.3                 | 3.6                         | -                   |
| 子宮体部 corpus uteri 卵巣 ovary  | 4.0                        | 8.0                 | 2.0                         | -                   |
| 前立腺 prostate 膀胱 bladder   | 11.1                       | 10.5                | -                           | 1.0                 |
| 膀胱 bladder 腎臓 kidney  | 6.4                        | 6.4                 | -                           | 1.0                 |
| 3) 異時性のみリスク増加が認められた組み合わせ Site-combinations,in which only risks of metachronous MPC are significantly elevated                           |                            |                     |                             |                     |
| 肺 lung 甲状腺 thyroid gland  | 19.3                       | 22.7                | 3.6                         | -                   |
| 食道 esophagus 喉頭 larynx  |                            | 1.2                 | 7.2*                        | 1.0                 |
| 喉頭 larynx 肺 lung  | 2.4*                       | 1.1                 | 4.0                         | 1.0                 |
| 子宮体部 corpus uteri 納角腸 colon   |                            | 0.9                 | 7.3                         | 1.0                 |

(注) 1.オッズ比、危険度比は、性、入院時年齢、入院年を調整した。

Note: 1.Odds ratios and rate ratios were adjusted for age at first admission, sex and calendar year of first admission.

2.太字：統計的に有意で、観察数5以上。

2. bold: significant and observed number >5.

3. \* : 有意であるが、観察数5以下。

3. \* : significant, but observed number <5.

4. - : 観察されなかったもの。

4. - : no observed data or not available

女( Females )

| 第1部位<br>( 入院時 )<br>First cancer sites | 患者数<br>Cases | 重複がん数<br>MPC<br>Cases | 第2部位 ( 入院時 ) Second cancer sites |                 |              |             |              |            |              |           |              |                |              |             |               |              |                |                  |
|---------------------------------------|--------------|-----------------------|----------------------------------|-----------------|--------------|-------------|--------------|------------|--------------|-----------|--------------|----------------|--------------|-------------|---------------|--------------|----------------|------------------|
|                                       |              |                       | 口腔咽頭<br>Oropharynx               | 食道<br>Esophagus | 胃<br>Stomach | 結腸<br>Colon | 直腸<br>Rectum | 肝<br>Liver | 喉頭<br>Larynx | 肺<br>Lung | 乳房<br>Breast | 子宮頸部<br>Cervix | 子宮体部<br>Body | 卵巣<br>Ovary | 膀胱<br>Bladder | 腎臓<br>Kidney | 甲状腺<br>Thyroid | 全多重がん<br>All MPC |
| 口腔咽頭<br>Oropharynx                    | 882          | 36                    | 0.3                              | 1.0             | 0.1          | 0.2         | 0.2          | 0.1        | 0.2          | 0.5       | 0.0          | 0.0            | 0.0          | 0.1         | 0.0           | 1.2          | 4.1            |                  |
| 食道<br>Esophagus                       | 315          | 28                    | 3(1.0)                           |                 | 2.9          | 0.3         | 0.6          | 0.3        | 0.0          | 0.6       | 0.6          | 0.6            | 0.0          | 0.3         | 0.0           | 0.0          | 1.6            | 8.9              |
| 胃<br>Stomach                          | 3,307        | 164                   | 9(0.3)                           | 9(0.3)          |              | 0.5         | 0.4          | 0.2        | 0.0          | 0.5       | 1.7          | 0.5            | 0.2          | 0.1         | 0.1           | 0.1          | 0.2            | 5.0              |
| 結腸<br>Colon                           | 1,017        | 103                   | 1(0.1)                           | 1(0.1)          | 18(1.8)      |             | 2.5          | 0.2        | 0.0          | 0.6       | 2.3          | 1.2            | 0.5          | 0.5         | 0.1           | 0.1          | 0.3            | 10.1             |
| 直腸<br>Rectum                          | 826          | 79                    | 2(0.2)                           | 2(0.2)          | 12(1.5)      | 25(3.0)     |              | 0.1        | 0.0          | 0.5       | 1.5          | 1.5            | 0.7          | 0.1         | 0.2           | 0.0          | 0.0            | 9.6              |
| 肝<br>Liver                            | 406          | 33                    | 2(0.5)                           | 1(0.2)          | 8(2.0)       | 2(0.5)      | 1(0.2)       |            | 0.0          | 0.5       | 3.0          | 0.5            | 0.0          | 0.0         | 0.2           | 0.0          | 0.5            | 8.1              |
| 喉頭<br>Larynx                          | 71           | 9                     | 1(1.4)                           | 0(0.0)          | 0(0.0)       | 0(0.0)      | 0(0.0)       | 0(0.0)     |              | 5.6       | 1.4          | 0.0            | 0.0          | 0.0         | 0.0           | 0.0          | 4.2            | 12.7             |
| 肺<br>Lung                             | 1,683        | 90                    | 2(0.1)                           | 2(0.1)          | 18(1.1)      | 6(0.4)      | 4(0.2)       | 2(0.1)     | 4(0.2)       |           | 1.5          | 0.5            | 0.1          | 0.1         | 0.0           | 0.0          | 0.8            | 5.3              |
| 乳房<br>Breast                          | 7,255        | 222                   | 4(0.1)                           | 2(0.0)          | 55(0.8)      | 23(0.3)     | 12(0.2)      | 12(0.2)    | 1(0.0)       | 26(0.4)   |              | 0.3            | 0.2          | 0.2         | 0.1           | 0.1          | 0.3            | 3.1              |
| 子宮頸部<br>Cervix uteri                  | 4,480        | 111                   | 0(0.0)                           | 2(0.0)          | 15(0.3)      | 12(0.3)     | 12(0.3)      | 2(0.0)     | 0(0.0)       | 9(0.2)    | 21(0.5)      |                | 0.3          | 0.2         | 0.0           | 0.1          | 0.3            | 2.5              |
| 子宮体部<br>Corpus uteri                  | 900          | 74                    | 0(0.0)                           | 0(0.0)          | 6(0.7)       | 5(0.6)      | 6(0.7)       | 0(0.0)     | 0(0.0)       | 2(0.2)    | 18(2.0)      | 13(1.4)        |              | 2.1         | 0.2           | 0.1          | 0.2            | 8.2              |
| 卵巣<br>Ovary                           | 604          | 56                    | 0(0.0)                           | 1(0.2)          | 3(0.5)       | 5(0.8)      | 1(0.2)       | 0(0.0)     | 0(0.0)       | 2(0.3)    | 13(2.2)      | 7(1.2)         | 19(3.1)      |             | 0.2           | 0.2          | 0.5            | 9.3              |
| 膀胱<br>Bladder                         | 231          | 29                    | 1(0.4)                           | 0(0.0)          | 4(1.7)       | 1(0.4)      | 2(0.9)       | 1(0.4)     | 0(0.0)       | 0(0.0)    | 5(2.2)       | 2(0.9)         | 2(0.9)       | 1(0.4)      |               | 3.9          | 0.4            | 12.6             |
| 腎臓<br>Kidney                          | 211          | 24                    | 0(0.0)                           | 0(0.0)          | 2(0.9)       | 1(0.5)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 0(0.0)    | 6(2.8)       | 3(1.4)         | 1(0.5)       | 1(0.5)      | 9(4.3)        |              | 0.5            | 11.4             |
| 甲状腺<br>Thyroid gland                  | 707          | 86                    | 11(1.6)                          | 5(0.7)          | 5(0.7)       | 3(0.4)      | 0(0.0)       | 2(0.3)     | 3(0.4)       | 13(1.8)   | 24(3.4)      | 13(1.8)        | 2(0.3)       | 3(0.4)      | 1(0.1)        | 1(0.1)       |                | 12.2             |

女( Females )

| 第1部位<br>( 入院時単一がん )<br>Site of initial primary cancer | 総 数<br>Cases | 第2部位 Second cancer sites |                 |              |             |              |            |              |           |              |                |              |             |               |              |                |                  |
|---|--------------|--------------------------|-----------------|--------------|-------------|--------------|------------|--------------|-----------|--------------|----------------|--------------|-------------|---------------|--------------|----------------|------------------|
|   |              | 口腔咽頭<br>Oropharynx       | 食道<br>Esophagus | 胃<br>Stomach | 結腸<br>Colon | 直腸<br>Rectum | 肝<br>Liver | 喉頭<br>Larynx | 肺<br>Lung | 乳房<br>Breast | 子宮頸部<br>Cervix | 子宮体部<br>Body | 卵巣<br>Ovary | 膀胱<br>Bladder | 腎臓<br>Kidney | 甲状腺<br>Thyroid | 全多重がん<br>All MPC |
| 口腔咽頭<br>Oropharynx                                    | 843          | 0(0.0)                   | 2(0.2)          | 2(0.2)       | 0(0.0)      | 1(0.1)       | 0(0.0)     | 0(0.0)       | 2(0.2)    | 3(0.4)       | 2(0.2)         | 1(0.1)       | 1(0.1)      | 0(0.0)        | 0(0.0)       | 1(0.1)         | 15(1.8)          |
| 食道<br>Esophagus                                       | 286          | 0(0.0)                   | 0(0.0)          | 1(0.3)       | 0(0.0)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 0(0.0)    | 2(0.7)       | 1(0.3)         | 0(0.0)       | 0(0.0)      | 0(0.0)        | 0(0.0)       | 1(0.3)         | 5(1.7)           |
| 胃<br>Stomach  | 3,115        | 2(0.1)                   | 1(0.0)          | 0(0.0)       | 5(0.2)      | 3(0.1)       | 1(0.0)     | 0(0.0)       | 3(0.1)    | 10(0.3)      | 4(0.1)         | 1(0.0)       | 3(0.1)      | 1(0.0)        | 0(0.0)       | 5(0.2)         | 39(1.3)          |
| 結腸<br>Colon   | 903          | 0(0.0)                   | 0(0.0)          | 4(0.4)       | 0(0.0)      | 3(0.3)       | 0(0.0)     | 0(0.0)       | 2(0.2)    | 2(0.2)       | 1(0.1)         | 2(0.2)       | 2(0.2)      | 0(0.0)        | 1(0.1)       | 1(0.1)         | 18(2.0)          |
| 直腸<br>Rectum  | 745          | 0(0.0)                   | 0(0.0)          | 3(0.4)       | 3(0.4)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 0(0.0)    | 3(0.4)       | 1(0.1)         | 1(0.1)       | 1(0.1)      | 0(0.0)        | 1(0.1)       | 0(0.0)         | 13(1.7)          |
| 肝<br>Liver  | 373          | 0(0.0)                   | 0(0.0)          | 0(0.0)       | 0(0.0)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 0(0.0)    | 1(0.3)       | 0(0.0)         | 0(0.0)       | 0(0.0)      | 0(0.0)        | 0(0.0)       | 1(0.3)         |                  |
| 喉頭<br>Larynx  | 62           | 1(1.6)                   | 1(1.6)          | 0(0.0)       | 0(0.0)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 1(1.6)    | 0(0.0)       | 1(1.6)         | 0(0.0)       | 0(0.0)      | 0(0.0)        | 0(0.0)       | 0(0.0)         | 4(6.5)           |
| 肺<br>Lung   | 1,587        | 0(0.0)                   | 0(0.0)          | 0(0.0)       | 0(0.0)      | 1(0.1)       | 0(0.0)     | 0(0.0)       | 0(0.0)    | 1(0.1)       | 1(0.1)         | 0(0.0)       | 0(0.0)      | 0(0.0)        | 0(0.0)       | 4(0.3)         | 7(0.4)           |
| 乳房<br>Breast  | 7,001        | 4(0.1)                   | 7(0.1)          | 20(0.3)      | 7(0.1)      | 3(0.0)       | 5(0.1)     | 1(0.0)       | 7(0.1)    | 0(0.0)       | 7(0.1)         | 10(0.1)      | 9(0.1)      | 4(0.1)        | 0(0.0)       | 13(0.2)        | 97(1.4)          |
| 子宮頸部<br>Cervix uteri                                  | 4,358        | 2(0.0)                   | 2(0.0)          | 21(0.5)      | 8(0.2)      | 5(0.1)       | 1(0.0)     | 0(0.0)       | 8(0.2)    | 14(0.3)      | 0(0.0)         | 2(0.0)       | 1(0.0)      | 6(0.1)        | 3(0.1)       | 7(0.2)         | 80(1.8)          |
| 子宮体部<br>Corpus uteri                                  | 821          | 0(0.0)                   | 0(0.0)          | 3(0.4)       | 6(0.7)      | 1(0.1)       | 0(0.0)     | 0(0.0)       | 1(0.1)    | 3(0.4)       | 2(0.2)         | 0(0.0)       | 0(0.0)      | 1(0.1)        | 2(0.2)       | 1(0.1)         | 20(2.4)          |
| 卵巣<br>Ovary   | 545          | 0(0.0)                   | 0(0.0)          | 1(0.2)       | 0(0.0)      | 2(0.4)       | 0(0.0)     | 0(0.0)       | 1(0.2)    | 2(0.4)       | 0(0.0)         | 1(0.2)       | 0(0.0)      | 0(0.0)        | 0(0.0)       | 2(0.4)         | 9(1.7)           |
| 膀胱<br>Bladder   | 200          | 0(0.0)                   | 0(0.0)          | 0(0.0)       | 0(0.0)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 1(0.5)    | 2(1.0)       | 1(0.5)         | 0(0.0)       | 0(0.0)      | 0(0.0)        | 0(0.0)       | 0(0.0)         | 4(2.0)           |
| 腎臓<br>Kidney  | 186          | 0(0.0)                   | 0(0.0)          | 1(0.5)       | 0(0.0)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 0(0.0)    | 0(0.0)       | 0(0.0)         | 0(0.0)       | 0(0.0)      | 0(0.0)        | 0(0.0)       | 0(0.0)         | 1(0.5)           |
| 甲状腺<br>Thyroid gland                                  | 604          | 2(0.3)                   | 0(0.0)          | 2(0.3)       | 1(0.2)      | 0(0.0)       | 0(0.0)     | 0(0.0)       | 2(0.3)    | 4(0.7)       | 1(0.2)         | 0(0.0)       | 0(0.0)      | 1(0.2)        | 1(0.2)       | 0(0.0)         | 14(2.3)          |

多重がんは、2つ以上の異なる部位にがんが発生したものの総称である。同時に発見された場合（同時性）と異なる時期に発見された場合（異時性）に分類される。多重がんの原因としては、複数の部位に共通したリスク因子が存在すること、一次がんに対する治療が二次がんのリスクを上昇させること、偶然に2つ以上のがんが発生することなどが考えられる。共通リスク因子が働いている場合には同時性と異時性の双方のリスクが上昇するし、一次がんへの治療が原因の場合は異時性多重がんのみリスクが上昇するなどで、ある程度の区別が可能である。

The multiple primary cancer (MPC) is defined as a set of two or more cancers detected at different organs. MPC is further classified as synchronous (detected simultaneously) and metachronous (detected at different times). The factors associated with increased risk of MPC are (1)shared common risk factors, (2)carcinogenic effects of treatment given to the first primary cancer, and (3)detection by chance. In case of shared common risk factors, the risk of synchronous as well as metachronous MPCs would increase, whereas only metachronous MPCs would increase in case of carcinogenic effect of therapeutic agents for the first primaries.