

PHARYNX  
BOTH SEXES

TABLE 5A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the pharynx, 1935-82+

| Category                                     | Male  | Female | Total |
|----------------------------------------------|-------|--------|-------|
| No. with first primary cancer*               | 2,098 | 539    | 2,637 |
| No. who developed a second primary cancer    | 178   | 30     | 208   |
| Average age at diagnosis of first cancer, yr | 61    | 59     | 60    |
| Average yr of diagnosis of first cancer      | 1964  | 1967   | 1965  |
| Person-yr of follow-up                       | 5,267 | 1,757  | 7,024 |
| Average follow-up, yr                        | 2.5   | 3.3    | 2.7   |
| Percent given radiotherapy for first cancer  | 85.6  | 84.8   | 85.4  |

+ ICD-O codes = 146-148.

- Number excludes all persons who survived less than 2 mo after the diagnosis of their first primary cancer or who developed a simultaneous cancer during this period. First primary cancers diagnosed only at autopsy or by death certificate are also excluded as are in situ cancers.

TABLE 5B. -- Microscopic confirmation among persons who developed second primary cancers after an initial cancer of the pharynx in Connecticut, 1935-82

| Microscopically confirmed       | No. | Percent+ |
|---------------------------------|-----|----------|
| Both first and second cancers   | 178 | 85.6     |
| Only the first cancer           | 22  | 10.6     |
| Only the second cancer          | 5   | 2.4      |
| Neither first nor second cancer | 3   | 1.4      |
| Total second primary cancers    | 208 | 100.0    |

+ Minor discrepancies between table entries, and row and column sums in this and subsequent tables are due to rounding.

PHARYNX  
BOTH SEXES

TABLE 5C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the pharynx among males and females in Connecticut, 1935-82+

| Second primary cancer site           | Yr after first primary cancer diagnosis |       |       |        |       |       |        |       |       |        |       |       | Total |       |       |
|--------------------------------------|-----------------------------------------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|
|                                      | <1 yr                                   |       |       | 1-4 yr |       |       | 5-9 yr |       |       | 10+ yr |       |       | O     | E     |       |
| No. starting interval                | 2,637                                   |       |       | 1,549  |       |       | 417    |       |       | 165    |       |       | 2,637 |       |       |
| Person-yr in interval                | 1,686                                   |       |       | 3,025  |       |       | 1,331  |       |       | 983    |       |       | 7,024 |       |       |
|                                      | O                                       | E     | O/E   | O      | E     | O/E   | O      | E     | O/E   | O      | E     | O/E   | O     | E     | O/E   |
| All second cancers                   | 43                                      | 17.79 | 2.4*  | 97     | 33.97 | 2.9*  | 50     | 17.07 | 2.9*  | 18     | 13.63 | 1.3   | 208   | 82.40 | 2.5*  |
| All excluding site of initial cancer | 43                                      | 17.56 | 2.4*  | 90     | 33.56 | 2.7*  | 47     | 16.89 | 2.8*  | 17     | 13.49 | 1.3   | 197   | 81.43 | 2.4*  |
| Buccal cavity, pharynx               | 8                                       | 0.90  | 8.9*  | 19     | 1.61  | 11.8* | 10     | 0.73  | 13.6* | 4      | 0.55  | 7.3*  | 41    | 3.79  | 10.8* |
| Lip                                  | 0                                       | 0.15  | 0.0   | 1      | 0.26  | 3.8   | 0      | 0.12  | 0.0   | 0      | 0.08  | 0.0   | 1     | 0.62  | 1.6   |
| Tongue                               | 4                                       | 0.18  | 22.1* | 4      | 0.33  | 12.2* | 4      | 0.15  | 27.4* | 1      | 0.11  | 9.4   | 13    | 0.76  | 17.1* |
| Salivary gland                       | 0                                       | 0.05  | 0.0   | 0      | 0.08  | 0.0   | 0      | 0.04  | 0.0   | 0      | 0.03  | 0.0   | 0     | 0.20  | 0.0   |
| Gum, other mouth                     | 3                                       | 0.25  | 11.8* | 7      | 0.46  | 15.2* | 2      | 0.21  | 9.4*  | 2      | 0.16  | 12.2* | 14    | 1.09  | 12.8* |
| Pharynx                              | 0                                       | 0.23  | 0.0   | 7      | 0.41  | 16.9* | 3      | 0.18  | 16.3* | 1      | 0.14  | 7.3   | 11    | 0.97  | 11.4* |
| Digestive system                     | 16                                      | 5.62  | 2.8*  | 31     | 10.55 | 2.9*  | 15     | 5.36  | 2.8*  | 3      | 4.20  | 0.7   | 65    | 25.72 | 2.5*  |
| Esophagus                            | 8                                       | 0.37  | 21.7* | 12     | 0.67  | 18.0* | 4      | 0.31  | 12.9* | 1      | 0.23  | 4.4   | 25    | 1.57  | 15.9* |
| Stomach                              | 0                                       | 1.04  | 0.0   | 5      | 1.82  | 2.7   | 2      | 0.89  | 2.3   | 0      | 0.64  | 0.0   | 7     | 4.38  | 1.6   |
| Colon                                | 4                                       | 2.07  | 1.9   | 6      | 4.02  | 1.5   | 4      | 2.13  | 1.9   | 2      | 1.74  | 1.2   | 16    | 9.95  | 1.6   |
| Rectum                               | 1                                       | 1.18  | 0.8   | 5      | 2.21  | 2.3   | 1      | 1.10  | 0.9   | 0      | 0.86  | 0.0   | 7     | 5.34  | 1.3   |
| Liver, biliary                       | 1                                       | 0.29  | 3.4   | 2      | 0.57  | 3.5   | 2      | 0.29  | 6.9   | 0      | 0.22  | 0.0   | 5     | 1.37  | 3.6*  |
| Pancreas                             | 2                                       | 0.57  | 3.5   | 1      | 1.09  | 0.9   | 2      | 0.55  | 3.6   | 0      | 0.44  | 0.0   | 5     | 2.65  | 1.9   |
| Respiratory system                   | 5                                       | 3.33  | 1.5   | 29     | 6.36  | 4.6*  | 14     | 3.04  | 4.6*  | 4      | 2.45  | 1.6   | 52    | 15.17 | 3.4*  |
| Nasal cavities, sinuses              | 0                                       | 0.04  | 0.0   | 1      | 0.07  | 14.1  | 0      | 0.03  | 0.0   | 0      | 0.03  | 0.0   | 1     | 0.17  | 5.9   |
| Larynx                               | 0                                       | 0.39  | 0.0   | 8      | 0.72  | 11.1* | 3      | 0.33  | 9.2*  | 2      | 0.25  | 8.0   | 13    | 1.69  | 7.7*  |
| Trachea, bronchus, lung              | 5                                       | 2.87  | 1.7   | 20     | 5.51  | 3.6*  | 11     | 2.65  | 4.1*  | 2      | 2.15  | 0.9   | 38    | 13.17 | 2.9*  |
| Female breast                        | 3                                       | 0.77  | 3.9   | 2      | 1.69  | 1.2   | 2      | 0.91  | 2.2   | 0      | 0.71  | 0.0   | 7     | 4.08  | 1.7   |
| Female genital tract                 | 0                                       | 0.50  | 0.0   | 1      | 1.09  | 0.9   | 0      | 0.57  | 0.0   | 0      | 0.41  | 0.0   | 1     | 2.56  | 0.4   |
| Cervix uteri                         | 0                                       | 0.10  | 0.0   | 0      | 0.20  | 0.0   | 0      | 0.10  | 0.0   | 0      | 0.07  | 0.0   | 0     | 0.46  | 0.0   |
| Corpus uteri                         | 0                                       | 0.21  | 0.0   | 1      | 0.48  | 2.1   | 0      | 0.25  | 0.0   | 0      | 0.18  | 0.0   | 1     | 1.13  | 0.9   |
| Uterus, NOS                          | 0                                       | 0.03  | 0.0   | 0      | 0.07  | 0.0   | 0      | 0.03  | 0.0   | 0      | 0.02  | 0.0   | 0     | 0.15  | 0.0   |
| Ovary, fallopian tubes               | 0                                       | 0.13  | 0.0   | 0      | 0.29  | 0.0   | 0      | 0.15  | 0.0   | 0      | 0.11  | 0.0   | 0     | 0.69  | 0.0   |
| Prostate gland                       | 4                                       | 2.45  | 1.6   | 6      | 4.65  | 1.3   | 5      | 2.46  | 2.0   | 2      | 2.10  | 1.0   | 17    | 11.66 | 1.5   |
| Testis                               | 0                                       | 0.03  | 0.0   | 0      | 0.05  | 0.0   | 0      | 0.02  | 0.0   | 0      | 0.02  | 0.0   | 0     | 0.12  | 0.0   |
| Kidney, renal pelvis, ureter         | 1                                       | 0.43  | 2.3   | 2      | 0.82  | 2.4   | 0      | 0.40  | 0.0   | 1      | 0.31  | 3.2   | 4     | 1.96  | 2.0   |
| Bladder, other urinary               | 2                                       | 1.12  | 1.8   | 1      | 2.12  | 0.5   | 1      | 1.08  | 0.9   | 0      | 0.89  | 0.0   | 4     | 5.21  | 0.8   |
| Melanoma of the skin                 | 0                                       | 0.21  | 0.0   | 0      | 0.40  | 0.0   | 0      | 0.19  | 0.0   | 0      | 0.16  | 0.0   | 0     | 0.96  | 0.0   |
| Eye                                  | 0                                       | 0.03  | 0.0   | 0      | 0.05  | 0.0   | 0      | 0.03  | 0.0   | 0      | 0.02  | 0.0   | 0     | 0.13  | 0.0   |
| Brain, central nervous system        | 0                                       | 0.21  | 0.0   | 0      | 0.39  | 0.0   | 0      | 0.18  | 0.0   | 0      | 0.14  | 0.0   | 0     | 0.91  | 0.0   |
| Thyroid gland                        | 0                                       | 0.07  | 0.0   | 0      | 0.13  | 0.0   | 0      | 0.06  | 0.0   | 0      | 0.05  | 0.0   | 0     | 0.30  | 0.0   |
| Bone                                 | 0                                       | 0.03  | 0.0   | 0      | 0.05  | 0.0   | 0      | 0.02  | 0.0   | 0      | 0.02  | 0.0   | 0     | 0.12  | 0.0   |
| Connective tissue                    | 0                                       | 0.09  | 0.0   | 1      | 0.16  | 6.2   | 0      | 0.08  | 0.0   | 1      | 0.06  | 15.9  | 2     | 0.39  | 5.1   |
| Lymphatic, hematopoietic system      | 2                                       | 1.15  | 1.7   | 4      | 2.21  | 1.8   | 2      | 1.12  | 1.8   | 1      | 0.91  | 1.1   | 9     | 5.38  | 1.7   |
| Non-Hodgkin's lymphoma               | 1                                       | 0.40  | 2.5   | 1      | 0.76  | 1.3   | 1      | 0.38  | 2.6   | 1      | 0.31  | 3.3   | 4     | 1.84  | 2.2   |
| Hodgkin's disease                    | 0                                       | 0.09  | 0.0   | 0      | 0.17  | 0.0   | 0      | 0.08  | 0.0   | 0      | 0.06  | 0.0   | 0     | 0.40  | 0.0   |
| Multiple myeloma                     | 0                                       | 0.17  | 0.0   | 0      | 0.34  | 0.0   | 0      | 0.18  | 0.0   | 0      | 0.15  | 0.0   | 0     | 0.84  | 0.0   |
| Leukemias                            | 1                                       | 0.49  | 2.0   | 3      | 0.94  | 3.2   | 1      | 0.48  | 2.1   | 0      | 0.40  | 0.0   | 5     | 2.30  | 2.2   |
| Chronic lymphocytic                  | 1                                       | 0.15  | 6.5   | 1      | 0.29  | 3.4   | 0      | 0.16  | 0.0   | 0      | 0.13  | 0.0   | 2     | 0.73  | 2.7   |
| Acute nonlymphocytic                 | 0                                       | 0.14  | 0.0   | 1      | 0.28  | 3.6   | 0      | 0.15  | 0.0   | 0      | 0.13  | 0.0   | 1     | 0.69  | 1.4   |

+ ICD-O codes = 146-148.

\* P<.05.

PHARYNX  
MALES

TABLE 5D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the pharynx among males in Connecticut, 1935-82+

| Second primary cancer site           | Yr after first primary cancer diagnosis |       |       |        |       |       |        |       |       |        |       |      | Total |       |       |
|--------------------------------------|-----------------------------------------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|------|-------|-------|-------|
|                                      | <1 yr                                   |       |       | 1-4 yr |       |       | 5-9 yr |       |       | 10+ yr |       |      |       |       |       |
|                                      | O                                       | E     | O/E   | O      | E     | O/E   | O      | E     | O/E   | O      | E     | O/E  | O     | E     | O/E   |
| No. starting interval                | 2,098                                   |       |       | 1,212  |       |       | 301    |       |       | 116    |       |      | 2,098 |       |       |
| Person-yr in interval                | 1,332                                   |       |       | 2,278  |       |       | 958    |       |       | 700    |       |      | 5,267 |       |       |
| All second cancers                   | 38                                      | 15.02 | 2.5*  | 83     | 27.71 | 3.0*  | 45     | 13.46 | 3.3*  | 12     | 10.83 | 1.1  | 178   | 66.96 | 2.7*  |
| All excluding site of initial cancer | 38                                      | 14.80 | 2.6*  | 76     | 27.33 | 2.8*  | 43     | 13.29 | 3.2*  | 12     | 10.70 | 1.1  | 169   | 66.06 | 2.6*  |
| Buccal cavity, pharynx               | 7                                       | 0.85  | 8.3*  | 18     | 1.49  | 12.1* | 8      | 0.67  | 12.0* | 1      | 0.50  | 2.0  | 34    | 3.50  | 9.7*  |
| Lip                                  | 0                                       | 0.15  | 0.0   | 1      | 0.25  | 3.9   | 0      | 0.11  | 0.0   | 0      | 0.08  | 0.0  | 1     | 0.60  | 1.7   |
| Tongue                               | 4                                       | 0.17  | 23.5* | 4      | 0.30  | 13.2* | 4      | 0.13  | 30.1* | 0      | 0.10  | 0.0  | 12    | 0.70  | 17.1* |
| Salivary gland                       | 0                                       | 0.04  | 0.0   | 0      | 0.07  | 0.0   | 0      | 0.03  | 0.0   | 0      | 0.03  | 0.0  | 0     | 0.17  | 0.0   |
| Gum, other mouth                     | 2                                       | 0.24  | 8.5   | 6      | 0.42  | 14.3* | 1      | 0.19  | 5.3   | 1      | 0.15  | 6.9  | 10    | 0.99  | 10.1* |
| Pharynx                              | 0                                       | 0.22  | 0.0   | 7      | 0.38  | 18.3* | 2      | 0.17  | 11.8* | 0      | 0.13  | 0.0  | 9     | 0.90  | 10.0* |
| Digestive system                     | 15                                      | 4.86  | 3.1*  | 26     | 8.80  | 3.0*  | 15     | 4.24  | 3.5*  | 3      | 3.33  | 0.9  | 59    | 21.22 | 2.8*  |
| Esophagus                            | 7                                       | 0.35  | 20.0* | 11     | 0.62  | 17.7* | 4      | 0.28  | 14.1* | 1      | 0.21  | 4.8  | 23    | 1.46  | 15.7* |
| Stomach                              | 0                                       | 0.94  | 0.0   | 4      | 1.61  | 2.5   | 2      | 0.75  | 2.7   | 0      | 0.54  | 0.0  | 6     | 3.83  | 1.6   |
| Colon                                | 4                                       | 1.72  | 2.3   | 5      | 3.21  | 1.6   | 4      | 1.60  | 2.5   | 2      | 1.31  | 1.5  | 15    | 7.83  | 1.9*  |
| Rectum                               | 1                                       | 1.03  | 1.0   | 4      | 1.86  | 2.2   | 1      | 0.89  | 1.1   | 0      | 0.69  | 0.0  | 6     | 4.47  | 1.3   |
| Liver, biliary                       | 1                                       | 0.25  | 4.1   | 1      | 0.45  | 2.2   | 2      | 0.22  | 9.2*  | 0      | 0.17  | 0.0  | 4     | 1.08  | 3.7   |
| Pancreas                             | 2                                       | 0.49  | 4.1   | 1      | 0.91  | 1.1   | 2      | 0.44  | 4.5   | 0      | 0.35  | 0.0  | 5     | 2.18  | 2.3   |
| Respiratory system                   | 5                                       | 3.13  | 1.6   | 27     | 5.90  | 4.6*  | 13     | 2.79  | 4.7*  | 3      | 2.25  | 1.3  | 48    | 14.06 | 3.4*  |
| Nasal cavities, sinuses              | 0                                       | 0.03  | 0.0   | 1      | 0.06  | 16.6  | 0      | 0.03  | 0.0   | 0      | 0.02  | 0.0  | 1     | 0.14  | 6.9   |
| Larynx                               | 0                                       | 0.38  | 0.0   | 7      | 0.69  | 10.1* | 2      | 0.31  | 6.4   | 2      | 0.24  | 8.3  | 11    | 1.63  | 6.8*  |
| Trachea, bronchus, lung              | 5                                       | 2.69  | 1.9   | 19     | 5.10  | 3.7*  | 11     | 2.43  | 4.5*  | 1      | 1.97  | 0.5  | 36    | 12.17 | 3.0*  |
| Prostate gland                       | 4                                       | 2.45  | 1.6   | 6      | 4.65  | 1.3   | 5      | 2.46  | 2.0   | 2      | 2.10  | 1.0  | 17    | 11.66 | 1.5   |
| Testis                               | 0                                       | 0.03  | 0.0   | 0      | 0.05  | 0.0   | 0      | 0.02  | 0.0   | 0      | 0.02  | 0.0  | 0     | 0.12  | 0.0   |
| Kidney, renal pelvis, ureter         | 1                                       | 0.39  | 2.6   | 1      | 0.72  | 1.4   | 0      | 0.34  | 0.0   | 1      | 0.27  | 3.7  | 3     | 1.72  | 1.7   |
| Bladder, other urinary               | 2                                       | 1.05  | 1.9   | 0      | 1.96  | 0.0   | 1      | 0.98  | 1.0   | 0      | 0.81  | 0.0  | 3     | 4.79  | 0.6   |
| Melanoma of the skin                 | 0                                       | 0.17  | 0.0   | 0      | 0.33  | 0.0   | 0      | 0.15  | 0.0   | 0      | 0.12  | 0.0  | 0     | 0.78  | 0.0   |
| Eye                                  | 0                                       | 0.02  | 0.0   | 0      | 0.04  | 0.0   | 0      | 0.02  | 0.0   | 0      | 0.01  | 0.0  | 0     | 0.10  | 0.0   |
| Brain, central nervous system        | 0                                       | 0.18  | 0.0   | 0      | 0.32  | 0.0   | 0      | 0.14  | 0.0   | 0      | 0.11  | 0.0  | 0     | 0.74  | 0.0   |
| Thyroid gland                        | 0                                       | 0.05  | 0.0   | 0      | 0.08  | 0.0   | 0      | 0.04  | 0.0   | 0      | 0.03  | 0.0  | 0     | 0.19  | 0.0   |
| Bone                                 | 0                                       | 0.02  | 0.0   | 0      | 0.04  | 0.0   | 0      | 0.02  | 0.0   | 0      | 0.01  | 0.0  | 0     | 0.10  | 0.0   |
| Connective tissue                    | 0                                       | 0.08  | 0.0   | 1      | 0.14  | 7.3   | 0      | 0.06  | 0.0   | 1      | 0.05  | 19.4 | 2     | 0.33  | 6.1   |
| Lymphatic, hematopoietic system      | 2                                       | 0.99  | 2.0   | 3      | 1.82  | 1.6   | 2      | 0.88  | 2.3   | 1      | 0.72  | 1.4  | 8     | 4.40  | 1.8   |
| Non-Hodgkin's lymphoma               | 1                                       | 0.33  | 3.0   | 1      | 0.61  | 1.6   | 1      | 0.29  | 3.5   | 1      | 0.23  | 4.3  | 4     | 1.46  | 2.7   |
| Hodgkin's disease                    | 0                                       | 0.08  | 0.0   | 0      | 0.14  | 0.0   | 0      | 0.06  | 0.0   | 0      | 0.05  | 0.0  | 0     | 0.33  | 0.0   |
| Multiple myeloma                     | 0                                       | 0.14  | 0.0   | 0      | 0.27  | 0.0   | 0      | 0.14  | 0.0   | 0      | 0.11  | 0.0  | 0     | 0.66  | 0.0   |
| Leukemias                            | 1                                       | 0.43  | 2.3   | 2      | 0.80  | 2.5   | 1      | 0.40  | 2.5   | 0      | 0.32  | 0.0  | 4     | 1.95  | 2.0   |
| Chronic lymphocytic                  | 1                                       | 0.14  | 7.3   | 1      | 0.26  | 3.9   | 0      | 0.13  | 0.0   | 0      | 0.11  | 0.0  | 2     | 0.63  | 3.2   |
| Acute nonlymphocytic                 | 0                                       | 0.12  | 0.0   | 1      | 0.23  | 4.3   | 0      | 0.12  | 0.0   | 0      | 0.10  | 0.0  | 1     | 0.57  | 1.8   |

+ ICD-O codes = 146-148.

\* P<.05.

PHARYNX  
FEMALES

TABLE 5E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the pharynx among females in Connecticut, 1935-82+

| Second primary cancer site           | Yr after first primary cancer diagnosis |      |      |        |      |      |        |      |       |        |      |        | Total |       |       |
|--------------------------------------|-----------------------------------------|------|------|--------|------|------|--------|------|-------|--------|------|--------|-------|-------|-------|
|                                      | <1 yr                                   |      |      | 1-4 yr |      |      | 5-9 yr |      |       | 10+ yr |      |        |       |       |       |
|                                      | O                                       | E    | O/E  | O      | E    | O/E  | O      | E    | O/E   | O      | E    | O/E    | O     | E     | O/E   |
| No. starting interval                | 539                                     |      |      | 337    |      |      | 116    |      |       | 49     |      |        | 539   |       |       |
| Person-yr in interval                | 354                                     |      |      | 747    |      |      | 373    |      |       | 283    |      |        | 1,757 |       |       |
| All second cancers                   | 5                                       | 2.77 | 1.8  | 14     | 6.26 | 2.2* | 5      | 3.61 | 1.4   | 6      | 2.80 | 2.1    | 30    | 15.44 | 1.9*  |
| All excluding site of initial cancer | 5                                       | 2.76 | 1.8  | 14     | 6.23 | 2.2* | 4      | 3.59 | 1.1   | 5      | 2.79 | 1.8    | 28    | 15.37 | 1.8*  |
| Buccal cavity, pharynx               | 1                                       | 0.05 | 18.3 | 1      | 0.12 | 8.2  | 2      | 0.07 | 30.4* | 3      | 0.05 | 61.4*  | 7     | 0.29  | 24.0* |
| Lip                                  | 0                                       | 0.00 | 0.0  | 0      | 0.01 | 0.0  | 0      | 0.00 | 0.0   | 0      | 0.00 | 0.0    | 0     | 0.01  | 0.0   |
| Tongue                               | 0                                       | 0.01 | 0.0  | 0      | 0.03 | 0.0  | 0      | 0.01 | 0.0   | 1      | 0.01 | 100.8* | 1     | 0.06  | 16.8  |
| Salivary gland                       | 0                                       | 0.01 | 0.0  | 0      | 0.01 | 0.0  | 0      | 0.01 | 0.0   | 0      | 0.01 | 0.0    | 0     | 0.03  | 0.0   |
| Gum, other mouth                     | 1                                       | 0.02 | 54.4 | 1      | 0.04 | 23.9 | 1      | 0.02 | 44.3  | 1      | 0.02 | 55.7   | 4     | 0.10  | 39.7* |
| Pharynx                              | 0                                       | 0.01 | 0.0  | 0      | 0.03 | 0.0  | 1      | 0.02 | 66.4  | 1      | 0.01 | 93.3*  | 2     | 0.07  | 28.5* |
| Digestive system                     | 1                                       | 0.76 | 1.3  | 5      | 1.75 | 2.9  | 0      | 1.12 | 0.0   | 0      | 0.88 | 0.0    | 6     | 4.50  | 1.3   |
| Esophagus                            | 1                                       | 0.02 | 52.4 | 1      | 0.04 | 22.6 | 0      | 0.03 | 0.0   | 0      | 0.02 | 0.0    | 2     | 0.11  | 18.4* |
| Stomach                              | 0                                       | 0.09 | 0.0  | 1      | 0.22 | 4.6  | 0      | 0.14 | 0.0   | 0      | 0.10 | 0.0    | 1     | 0.55  | 1.8   |
| Colon                                | 0                                       | 0.35 | 0.0  | 1      | 0.81 | 1.2  | 0      | 0.53 | 0.0   | 0      | 0.43 | 0.0    | 1     | 2.12  | 0.5   |
| Rectum                               | 0                                       | 0.15 | 0.0  | 1      | 0.35 | 2.9  | 0      | 0.21 | 0.0   | 0      | 0.17 | 0.0    | 1     | 0.88  | 1.1   |
| Liver, biliary                       | 0                                       | 0.05 | 0.0  | 1      | 0.11 | 8.7  | 0      | 0.07 | 0.0   | 0      | 0.06 | 0.0    | 1     | 0.29  | 3.4   |
| Pancreas                             | 0                                       | 0.08 | 0.0  | 0      | 0.18 | 0.0  | 0      | 0.11 | 0.0   | 0      | 0.09 | 0.0    | 0     | 0.46  | 0.0   |
| Respiratory system                   | 0                                       | 0.20 | 0.0  | 2      | 0.46 | 4.4  | 1      | 0.25 | 4.0   | 1      | 0.20 | 5.0    | 4     | 1.10  | 3.6   |
| Nasal cavities, sinuses              | 0                                       | 0.00 | 0.0  | 0      | 0.01 | 0.0  | 0      | 0.01 | 0.0   | 0      | 0.00 | 0.0    | 0     | 0.03  | 0.0   |
| Larynx                               | 0                                       | 0.01 | 0.0  | 1      | 0.03 | 35.7 | 1      | 0.01 | 71.6  | 0      | 0.01 | 0.0    | 2     | 0.07  | 30.7* |
| Trachea, bronchus, lung              | 0                                       | 0.18 | 0.0  | 1      | 0.41 | 2.4  | 0      | 0.23 | 0.0   | 1      | 0.18 | 5.5    | 2     | 1.00  | 2.0   |
| Female breast                        | 3                                       | 0.77 | 3.9  | 2      | 1.69 | 1.2  | 2      | 0.91 | 2.2   | 0      | 0.71 | 0.0    | 7     | 4.08  | 1.7   |
| Female genital tract                 | 0                                       | 0.50 | 0.0  | 1      | 1.09 | 0.9  | 0      | 0.57 | 0.0   | 0      | 0.41 | 0.0    | 1     | 2.56  | 0.4   |
| Cervix uteri                         | 0                                       | 0.10 | 0.0  | 0      | 0.20 | 0.0  | 0      | 0.10 | 0.0   | 0      | 0.07 | 0.0    | 0     | 0.46  | 0.0   |
| Corpus uteri                         | 0                                       | 0.21 | 0.0  | 1      | 0.48 | 2.1  | 0      | 0.25 | 0.0   | 0      | 0.18 | 0.0    | 1     | 1.13  | 0.9   |
| Uterus, NOS                          | 0                                       | 0.03 | 0.0  | 0      | 0.07 | 0.0  | 0      | 0.03 | 0.0   | 0      | 0.02 | 0.0    | 0     | 0.15  | 0.0   |
| Ovary, fallopian tubes               | 0                                       | 0.13 | 0.0  | 0      | 0.29 | 0.0  | 0      | 0.15 | 0.0   | 0      | 0.11 | 0.0    | 0     | 0.69  | 0.0   |
| Kidney, renal pelvis, ureter         | 0                                       | 0.04 | 0.0  | 1      | 0.10 | 10.3 | 0      | 0.06 | 0.0   | 0      | 0.05 | 0.0    | 1     | 0.25  | 4.1   |
| Bladder, other urinary               | 0                                       | 0.07 | 0.0  | 1      | 0.16 | 6.2  | 0      | 0.10 | 0.0   | 0      | 0.09 | 0.0    | 1     | 0.42  | 2.4   |
| Melanoma of the skin                 | 0                                       | 0.04 | 0.0  | 0      | 0.08 | 0.0  | 0      | 0.04 | 0.0   | 0      | 0.03 | 0.0    | 0     | 0.19  | 0.0   |
| Eye                                  | 0                                       | 0.00 | 0.0  | 0      | 0.01 | 0.0  | 0      | 0.01 | 0.0   | 0      | 0.00 | 0.0    | 0     | 0.03  | 0.0   |
| Brain, central nervous system        | 0                                       | 0.03 | 0.0  | 0      | 0.07 | 0.0  | 0      | 0.04 | 0.0   | 0      | 0.03 | 0.0    | 0     | 0.17  | 0.0   |
| Thyroid gland                        | 0                                       | 0.02 | 0.0  | 0      | 0.04 | 0.0  | 0      | 0.02 | 0.0   | 0      | 0.02 | 0.0    | 0     | 0.11  | 0.0   |
| Bone                                 | 0                                       | 0.00 | 0.0  | 0      | 0.01 | 0.0  | 0      | 0.01 | 0.0   | 0      | 0.00 | 0.0    | 0     | 0.02  | 0.0   |
| Connective tissue                    | 0                                       | 0.01 | 0.0  | 0      | 0.03 | 0.0  | 0      | 0.01 | 0.0   | 0      | 0.01 | 0.0    | 0     | 0.06  | 0.0   |
| Lymphatic, hematopoietic system      | 0                                       | 0.17 | 0.0  | 1      | 0.39 | 2.6  | 0      | 0.24 | 0.0   | 0      | 0.19 | 0.0    | 1     | 0.98  | 1.0   |
| Non-Hodgkin's lymphoma               | 0                                       | 0.07 | 0.0  | 0      | 0.15 | 0.0  | 0      | 0.09 | 0.0   | 0      | 0.07 | 0.0    | 0     | 0.39  | 0.0   |
| Hodgkin's disease                    | 0                                       | 0.01 | 0.0  | 0      | 0.03 | 0.0  | 0      | 0.02 | 0.0   | 0      | 0.01 | 0.0    | 0     | 0.07  | 0.0   |
| Multiple myeloma                     | 0                                       | 0.03 | 0.0  | 0      | 0.07 | 0.0  | 0      | 0.04 | 0.0   | 0      | 0.04 | 0.0    | 0     | 0.17  | 0.0   |
| Leukemias                            | 0                                       | 0.06 | 0.0  | 1      | 0.13 | 7.5  | 0      | 0.09 | 0.0   | 0      | 0.07 | 0.0    | 1     | 0.35  | 2.9   |
| Chronic lymphocytic                  | 0                                       | 0.02 | 0.0  | 0      | 0.04 | 0.0  | 0      | 0.03 | 0.0   | 0      | 0.02 | 0.0    | 0     | 0.10  | 0.0   |
| Acute nonlymphocytic                 | 0                                       | 0.02 | 0.0  | 0      | 0.05 | 0.0  | 0      | 0.03 | 0.0   | 0      | 0.03 | 0.0    | 0     | 0.12  | 0.0   |

+ ICD-O codes = 146-148.

\* P<.05.