Socioeconomic Factors are Associated with the Prognosis of Thyroid Cancer

Supplementary Materials

Table S1. Comparison of survival outcomes by different factors in patient with primary thyroid cancer.

Table S2. Univariate and multivariate overall survival analysis of primary thyroid cancer patients in entire cohort and who underwent surgery.

Table S3. Univariate and multivariate survival analysis of primary thyroid cancer patients who underwent surgery and radiation (n = 60,062) by different factors.

Table S4. Comparison of 5-year and 10-year survival outcomes by different factors in all patients with thyroid cancer.

Table S5. Multivariate survival analysis of all thyroid cancer patients by different factors.

Abbreviation: OS: Overall Survival; CSS: Cancer-specific Survival; OR: Odds Ratio; HR: Hazard Ratio; 95%CI: 95% confidence interval; Ref: Reference; NH: non-Hispanic; API: Asian or Pacific Islander; AI/AN: American Indian/Alaska Native; RUCA: Rural Urban Commuting Area.
Table S1. Comparison of survival outcomes by different factors in patient with primary thyroid cancer*.

| Characteristics | 10-year OS (N of Events = 5,473) | 5-year CSS (N of Events = 1,706) | 5-year OS (N of Events = 3,663) |
|-----------------|----------------------------------|----------------------------------|----------------------------------|
|                 | n of Events (%) | OR (95%CI) | P | n of Events (%) | OR (95%CI) | P | n of Events (%) | OR (95%CI) | P |
| Gender          |                    |          |   |                    |          |   |                    |          |   |
| Female          | 3,289 (3.3)        | 1.00 (Ref.) | / | 964 (1.0)        | 1.00 (Ref.) | / | 2,161 (2.2)        | 1.00 (Ref.) | / |
| Male            | 2,184 (7.3)        | 2.46 (2.32-2.60) <0.001 | / | 742 (2.7)        | 2.76 (2.50-3.05) <0.001 | / | 1,502 (5.5)        | 2.53 (2.37-2.71) <0.001 | /
| Race/Ethnicity  |                    |          |   |                    |          |   |                    |          |   |
| Unmarried status included |        |          |   |                    |          |   |                    |          |   |
| Unknown         |                    |          |   |                    |          |   |                    |          |   |
| NH White        | 3,745 (4.6)        | 1.00 (Ref.) | / | 1,092 (2.5)       | 1.00 (Ref.) | / | 2,461 (3.0)        | 1.00 (Ref.) | / |
| NH Black        | 511 (6.0)          | 1.34 (1.22-1.47) <0.001 | / | 123 (1.5)        | 0.62 (0.51-0.74) <0.001 | / | 352 (4.2)          | 1.40 (1.24-1.57) <0.001 | /
| NH API          | 481 (3.6)          | 0.78 (0.71-0.86) <0.001 | / | 205 (1.5)        | 0.66 (0.56-0.75) <0.001 | / | 322 (2.4)          | 0.80 (0.71-0.90) <0.001 | /
| NH AI/AN        | 705 (3.5)          | 0.75 (0.69-0.82) <0.001 | / | 274 (1.3)        | 1.01 (0.88-1.16) 0.89 | / | 506 (2.5)          | 0.82 (0.75-0.91) <0.001 | /
| Hispanic        | 705 (3.5)          | 0.75 (0.69-0.82) <0.001 | / | 274 (1.3)        | 1.01 (0.88-1.16) 0.89 | / | 506 (2.5)          | 0.82 (0.75-0.91) <0.001 | /
| NH Unknown      | 5 (0.3)            | /        |   | 1 (0.1)          | /        |   | 3 (0.2)            | /        |   |
| Insurance Status|                    |          |   |                    |          |   |                    |          |   |
| Insured         | 2138 (2.7)         | 1.00 (Ref.) | / | 738 (0.9)        | 1.00 (Ref.) | / | 1,655 (2.1)        | 1.00 (Ref.) | / |
| Medicaid        | 508 (5.3)          | 2.03 (1.84-2.25) <0.001 | / | 169 (1.5)        | 1.92 (1.61-2.28) <0.001 | / | 411 (4.3)          | 2.12 (1.89-2.36) <0.001 | /
| Uninsured       | 76 (3.1)           | 1.16 (0.91-1.46) 0.24 | / | 29 (1.2)         | 1.28 (0.85-1.86) 0.24 | / | 56 (2.3)           | 1.10 (0.82-1.44) 0.53 | /
| Unknown         | 2751 (7.9)         | /        |   | 770 (2.2)        | /        |   | 1541 (4.4)         | /        |   |
| Marital Status  |                    |          |   |                    |          |   |                    |          |   |
| Married         | 2,679 (3.5)        | 1.00 (Ref.) | / | 842 (1.1)        | 1.00 (Ref.) | / | 1,721 (2.2)        | 1.00 (Ref.) | / |
| Single          | 874 (3.2)          | 0.91 (0.85-0.99) 0.03 | / | 256 (0.9)        | 0.85 (0.74-0.98) 0.03 | / | 634 (2.3)          | 1.04 (0.94-1.14) 0.46 | /
| Divorced        | 504 (6.0)          | 1.76 (1.59-1.94) <0.001 | / | 142 (1.7)        | 1.55 (1.28-1.85) <0.001 | / | 320 (3.8)          | 1.72 (1.52-1.95) <0.001 | /
| Widowed         | 1,090 (20.2)       | 7.00 (6.58-7.57) <0.001 | / | 380 (7.0)        | 6.83 (6.02-7.75) <0.001 | / | 763 (14.1)         | 7.18 (6.56-7.87) <0.001 | /
| Separated       | 49 (4.5)           | 1.32 (0.96-1.76) 0.08 | / | 10 (0.9)         | 0.84 (0.40-1.57) 0.70 | / | 35 (3.2)           | 1.46 (1.01-2.05) 0.04 | /
| Unmarried        | 5 (0.3)           | 0.13 (0.00-0.72) 0.01 | / | 0 (0.0)          | /        |   | 1 (0.5)           | 0.20 (0.01-1.13) 0.10 | /
| Unknown         | 276 (4.0)          | /        |   | 76 (1.1)         | /        |   | 189 (2.7)          | /        |   |
| RUCA Category   |                    |          |   |                    |          |   |                    |          |   |
| Urban           | 4,650 (4.1)        | 1.00 (Ref.) | / | 1,468 (1.5)      | 1.00 (Ref.) | / | 3,147 (2.8)        | 1.00 (Ref.) | / |
| Rural           | 528 (6.6)          | 1.69 (1.53-1.85) <0.001 | / | 148 (1.9)        | 1.43 (1.20-1.70) <0.001 | / | 325 (4.1)          | 1.48 (1.31-1.66) <0.001 | /
| Unknown         | 295 (5.3)          | /        |   | 90 (1.6)         | /        |   | 191 (3.5)          | /        |   |
| YOST tertile    |                    |          |   |                    |          |   |                    |          |   |
| Low             | 1700 (5.9)         | 1.00 (Ref.) | / | 505 (1.8)        | 1.00 (Ref.) | / | 1,155 (4.0)        | 1.00 (Ref.) | / |
| Middle          | 1,833 (4.6)        | 0.77 (0.72-0.83) <0.001 | / | 581 (1.5)        | 0.83 (0.74-0.94) 0.003 | / | 1,245 (3.1)        | 0.77 (0.71-0.84) <0.001 | /
| High            | 1,586 (3.1)        | 0.52 (0.48-0.55) <0.001 | / | 510 (1.0)        | 0.57 (0.50-0.65) <0.001 | / | 1,029 (2.0)        | 0.50 (0.46-0.54) <0.001 | /
| Unknown         | 354 (4.7)          | /        |   | 110 (1.5)        | /        |   | 234 (3.11)         | /        |   |

* Patients were classified as ICD-O-3 codes "8140-8389: adenomas and adenocarcinomas" and registered as "One primary only" in SEER database.

* Unmarried status included "domestic partner".
| Characteristics          | Entire Cohort (n = 126,160) | Surgery (n = 122,675) |
|--------------------------|----------------------------|-----------------------|
|                         | Crude HR (95% CI)          | Adjusted HR (95% CI)  | Crude HR (95% CI)          | Adjusted HR (95% CI)  |
| Gender                   |                            |                       |                            |                       |
| Male                     | 1.00 (Ref.)                | 1.00 (Ref.)           | 1.00 (Ref.)                | 1.00 (Ref.)           |
| Female                   | 0.43 (0.41-0.45)           | <0.001                | 0.43 (0.41-0.46)           | <0.001                |
| Race/Ethnicity           |                            |                       |                            |                       |
| NH White                 | 1.00 (Ref.)                | 1.00 (Ref.)           | 1.00 (Ref.)                | 1.00 (Ref.)           |
| NH Black                 | 1.36 (1.25-1.49)           | <0.001                | 1.55 (1.42-1.70)           | <0.001               |
| NH API                   | 0.91 (0.87-0.95)           | <0.001                | 0.97 (0.93-1.02)           | 0.26                 |
| NH AI/AN                 | 1.04 (0.92-1.18)           | 0.51                  | 1.09 (0.97-1.23)           | 0.16                 |
| Hispanic                 | 0.97 (0.95-0.99)           | <0.001                | 1.00 (0.98-1.02)           | 0.90                 |
| NH Unknown               | 0.64 (0.54-0.75)           | <0.001                | 0.66 (0.56-0.77)           | <0.001               |
| Insurance Status         |                            |                       |                            |                       |
| Insured                  | 1.00 (Ref.)                | 1.00 (Ref.)           | 1.00 (Ref.)                | 1.00 (Ref.)           |
| Medicaid                 | 2.42 (2.20-2.67)           | <0.001                | 2.94 (2.67-3.25)           | <0.001               |
| Uninsured                | 1.12 (1.00-1.26)           | 0.048                 | 1.23 (1.10-1.38)           | <0.001               |
| Marital                  |                            |                       |                            |                       |
| Married                  | 1.00 (Ref.)                | 1.00 (Ref.)           | 1.00 (Ref.)                | 1.00 (Ref.)           |
| Single                   | 0.96 (0.89-1.03)           | 0.21                  | 1.07 (1.00-1.15)           | 0.06                 |
| Divorced                 | 1.34 (1.28-1.40)           | 0.01                  | 1.41 (1.35-1.48)           | <0.001               |
| Widowed                  | 1.87 (1.83-1.92)           | <0.001                | 1.95 (1.91-2.00)           | <0.001               |
| Separated                | 1.08 (1.01-1.16)           | 0.02                  | 1.12 (1.04-1.19)           | 0.001                |
| Unmarried                | 0.78 (0.53-1.16)           | 0.22                  | 0.82 (0.56-1.22)           | 0.33                 |
| RUCA Category            |                            |                       |                            |                       |
| Urban                    | 1.00 (Ref.)                | 1.00 (Ref.)           | 1.00 (Ref.)                | 1.00 (Ref.)           |
| Rural                    | 1.44 (1.33-1.57)           | <0.001                | 1.50 (1.37-1.64)           | <0.001               |
| Yost tertile             |                            |                       |                            |                       |
| Low                      | 1.00 (Ref.)                | 1.00 (Ref.)           | 1.00 (Ref.)                | 1.00 (Ref.)           |
| Middle                   | 0.76 (0.71-0.80)           | <0.001                | 0.87 (0.82-0.93)           | <0.001               |
| High                     | 0.70 (0.68-0.72)           | <0.001                | 0.75 (0.73-0.78)           | <0.001               |
| Stage                    |                            |                       |                            |                       |
| Localized                | 1.00 (Ref.)                | 1.00 (Ref.)           | 1.00 (Ref.)                | 1.00 (Ref.)           |
| Regional                 | 1.53 (1.44-1.63)           | <0.001                | 1.62 (1.52-1.72)           | <0.001               |
| Distant                  | 3.93 (3.81-4.05)           | <0.001                | 4.04 (3.92-4.17)           | <0.001               |

* Patients were classified as ICD-O-3 codes “8140-8389: adenomas and adenocarcinomas” and registered as “One primary only” in SEER database.

* Unmarried status included “domestic partner”. 
| Characteristics       | Cancer-Specific Survival | Overall Survival |
|-----------------------|--------------------------|-----------------|
|                       | Crude HR_CS (95%CI)       | P               | Adjusted HR_CS (95%CI) | P |
| Gender                |                          |                 |                             |   |
| Male                  | 1.00 (Ref.)              | /               | 1.00 (Ref.)                | /  |
| Female                | 0.36 (0.32-0.40)         | <0.001          | 0.44 (0.36-0.53)           | <0.001 |
| Race/Ethnicity        |                          |                 |                             |   |
| NH White              | 1.00 (Ref.)              | /               | 1.00 (Ref.)                | /  |
| NH Black              | 1.00 (0.85-1.19)         | 0.97            | 0.95 (0.63-1.42)           | 0.80 |
| NH API                | 1.11 (1.03-1.18)         | 0.003           | 0.65 (0.48-0.87)           | 0.005 |
| NH AI/AN              | 1.09 (0.91-1.31)         | 0.37            | 1.48 (0.47-4.61)           | 0.503 |
| Hispanic              | 1.03 (1.00-1.06)         | 0.09            | 0.72 (0.55-0.93)           | 0.01 |
| NH Unknown            | 0.67 (0.53-0.84)         | <0.001          | /                           | /  |
| Insurance Status      |                          |                 |                             |   |
| Insured               | 1.00 (Ref.)              | /               | 1.00 (Ref.)                | /  |
| Medicaid              | 2.28 (1.93-2.71)         | <0.001          | 1.56 (1.18-2.07)           | 0.002 |
| Uninsured             | 1.20 (1.00-1.42)         | 0.046           | 1.55 (0.93-2.57)           | 0.09 |
| Marital               |                          |                 |                             |   |
| Married               | 1.00 (Ref.)              | /               | 1.00 (Ref.)                | /  |
| Single                | 0.68 (0.60-0.77)         | <0.001          | 0.52 (0.39-0.68)           | <0.001 |
| Divorced              | 1.15 (1.06-1.24)         | <0.001          | 1.70 (1.26-2.29)           | <0.001 |
| Widowed               | 1.72 (1.65-1.78)         | <0.001          | 3.32 (2.52-4.37)           | <0.001 |
| Separated             | 0.93 (0.82-1.06)         | 0.30            | 1.04 (0.43-2.53)           | 0.93 |
| Unmarried             | /                        | /               |                             | /  |
| RUCA Category         |                          |                 |                             |   |
| Urban                 | 1.00 (Ref.)              | /               | 1.00 (Ref.)                | /  |
| Rural                 | 1.31 (1.08-1.59)         | 0.007           | 0.87 (0.57-1.30)           | 0.49 |
| Yost tertile          |                          |                 |                             |   |
| Low                   | 1.00 (Ref.)              | /               | 1.00 (Ref.)                | /  |
| Middle                | 0.84 (0.74-0.96)         | 0.010           | 0.90 (0.71-1.15)           | 0.41 |
| High                  | 0.78 (0.73-0.84)         | <0.001          | 0.76 (0.60-0.98)           | 0.03 |
| Stage                 |                          |                 |                             |   |
| Localized             | 1.00 (Ref.)              | /               | 1.00 (Ref.)                | /  |
| Regional              | 5.44 (4.59-6.44)         | <0.001          | 5.58 (4.04-7.71)           | <0.001 |
| Distant               | 9.30 (8.57-10.08)        | <0.001          | 77.92 (56.75-106.99)       | <0.001 |
| In situ               | /                        | /               |                             | /  |

*Patients were classified as ICD-O-3 codes "8140-8389: adenomas and adenocarcinomas" and registered as "One primary only" in SEER database.
Unmarried status included "domestic partner".
## Table S4. Comparison of 5-year and 10-year survival outcomes by different factors in all patients with thyroid cancer.

| Characteristics       | Thyroid Cancer<sup>a</sup> (N = 136,313) | 5-year CSS (Events = 1,919) | 5-year OS (Events = 4,679) | 10-year CSS (Events = 2,572) | 10-year OS (Events = 7,348) |
|-----------------------|------------------------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|
|                       | N of events (%)                          | N (%)                        | OR (95%CI)                  | P                            | N (%)                        | OR (95%CI)                  | P                            |
| Gender                |                                          |                              |                             |                              |                             |                             |                              |
| Female                | 105,508 (77.4)                           | 1082 (1.03)                  | 1.00 (Ref.)                 | <0.001                       | 2771 (2.63)                  | 1.00 (Ref.)                 | <0.001                       |
| Male                  | 30,805 (22.6)                            | 837 (2.72)                   | 2.70 (2.46-2.96)            | <0.001                       | 1908 (6.19)                  | 2.45 (2.30-2.60)            | <0.001                       |
| Race/Ethnicity       |                                          |                              |                             |                              |                              |                             |                              |
| NH White              | 89,388 (65.6)                            | 1242 (1.39)                  | 1.00 (Ref.)                 | <0.001                       | 3200 (3.58)                  | 1.00 (Ref.)                 | <0.001                       |
| NH Black              | 9,165 (6.7)                              | 139 (0.91)                   | 1.09 (0.91-1.31)            | 0.35                         | 442 (4.82)                   | 1.36 (1.23-1.51)            | <0.001                       |
| NH API                | 14,244 (10.4)                            | 225 (1.58)                   | 1.14 (0.98-1.32)            | 0.08                         | 402 (2.82)                   | 0.78 (0.70-0.87)            | <0.001                       |
| NH A/A/N             | 607 (4.0)                                | 11 (0.81)                    | 1.31 (0.65-2.37)            | 0.48                         | 24 (3.95)                    | 1.11 (0.70-1.67)            | 0.70                         |
| Hispanic              | 21,433 (15.7)                            | 301 (1.40)                   | 1.01 (0.89-1.15)            | 0.86                         | 608 (8.24)                   | 0.79 (0.72-0.86)            | <0.001                       |
| NH Unknown            | 1,476 (1.1)                              | 1 (0.07)                     | 0.05 (0.00-0.27)            | <0.001                       | 3 (0.20)                     | 0.05 (0.01-0.16)            | <0.001                       |
| Insurance Status      |                                          |                              |                             |                              |                              |                             |                              |
| Insured              | 84,228 (61.8)                            | 841 (1.00)                   | 1.00 (Ref.)                 | <0.001                       | 2193 (2.60)                  | 1.00 (Ref.)                 | <0.001                       |
| Medicaid             | 10,008 (7.3)                             | 188 (1.88)                   | 1.90 (1.61-2.23)            | <0.001                       | 480 (8.80)                   | 1.88 (1.70-2.09)            | <0.001                       |
| Uninsured            | 2,559 (1.9)                              | 33 (1.29)                    | 1.30 (0.88-1.84)            | 0.18                         | 70 (2.74)                    | 1.05 (0.81-1.34)            | 0.73                         |
| Unknown              | 39,518 (29.0)                            | 857 (2.17)                   | /                           | /                            | 1956 (4.90)                  | /                           | /                            |
| Marital Status       |                                          |                              |                             |                              |                              |                             |                              |
| Married              | 83,265 (61.1)                            | 960 (1.15)                   | 1.00 (Ref.)                 | <0.001                       | 1178 (1.41)                  | 1.00 (Ref.)                 | <0.001                       |
| Single               | 28,796 (21.1)                            | 285 (0.99)                   | 0.86 (0.75-0.98)            | 0.03                         | 760 (2.64)                   | 1.89 (1.72-2.07)            | <0.001                       |
| Divorced             | 9,249 (6.8)                              | 162 (1.75)                   | 1.53 (1.28-1.81)            | <0.001                       | 426 (4.61)                   | 3.36 (3.00-3.77)            | <0.001                       |
| Widowed              | 6,177 (4.5)                              | 412 (6.67)                   | 6.13 (5.43-6.91)            | <0.001                       | 934 (13.12)                  | 12.41 (11.33-13.60)         | <0.001                       |
| Separated            | 1,170 (0.9)                              | 14 (1.20)                    | 1.04 (0.56-1.76)            | 1.00                         | 4 (3.93)                     | 2.85 (2.06-3.85)            | <0.001                       |
| Unmarried<sup>b</sup> | 225 (0.2)                                | 0 (0)                       | /                           | /                            | 2 (0.89)                     | 0.62 (0.08-2.29)            | 0.78                         |
| Unknown              | 7,431 (5.5)                              | 86 (1.16)                    | /                           | /                            | 233 (3.14)                   | /                           | /                            |
| RUCA Category        |                                          |                              |                             |                              |                              |                             |                              |
| Urban                | 121,526 (89.2)                           | 1651 (1.36)                  | 1.00 (Ref.)                 | <0.001                       | 4010 (3.30)                  | 1.00 (Ref.)                 | <0.001                       |
| Rural                | 8783 (6.4)                               | 165 (1.88)                   | 1.39 (1.18-1.63)            | <0.001                       | 426 (4.85)                   | 1.49 (1.35-1.66)            | <0.001                       |
| Unknown              | 6,004 (4.4)                              | 103 (1.72)                   | /                           | /                            | 243 (4.05)                   | /                           | /                            |
| Yost terr            |                                          |                              |                             |                              |                              |                             |                              |
| Low                  | 30,991 (22.7)                            | 555 (1.79)                   | 1.00 (Ref.)                 | <0.001                       | 1462 (4.72)                  | 1.00 (Ref.)                 | <0.001                       |
| Middle               | 42,613 (31.3)                            | 654 (1.53)                   | 0.85 (0.76-0.96)            | 0.008                        | 1573 (3.69)                  | 0.77 (0.72-0.83)            | <0.001                       |
| High                 | 54,583 (40.0)                            | 586 (1.07)                   | 0.60 (0.53-0.67)            | <0.001                       | 1351 (2.48)                  | 0.51 (0.48-0.55)            | <0.001                       |
| Unknown              | 8,126 (6.0)                              | 124 (1.53)                   | /                           | /                            | 293 (3.61)                   | /                           | /                            |

<sup>a</sup> Patients were classified as ICD-O-3 codes "8140-8389: adenomas and adenocarcinomas".

<sup>b</sup> Unmarried status included "domestic partner".
Table S5. Multivariate survival analysis of all thyroid cancer patients * by different factors

| Characteristics     | Cancer-specific Survival | Overall Survival |
|---------------------|--------------------------|------------------|
|                     | Adjusted HR_{CSS} (95%CI) | P     | Adjusted HR_{OS} (95%CI) | P     |
| Gender              |                          |       |                           |       |
| Male                | Ref.                      | /     | Ref.                      | /     |
| Female              | 0.38 (0.35-0.41)          | <0.001| 0.45 (0.43-0.47)          | <0.001|
| Race/Ethnicity      |                          |       |                           |       |
| NH White            | Ref.                      | /     | Ref.                      | /     |
| NH Black            | 1.11 (0.96-1.29)          | 0.18  | 1.33 (1.23-1.43)          | <0.001|
| NH API              | 1.15 (1.08-1.21)          | <0.001| 0.92 (0.88-0.95)          | <0.001|
| NH AI/AN            | 1.12 (0.94-1.33)          | 0.19  | 1.04 (0.93-1.15)          | 0.50  |
| Hispanic            | 1.05 (1.02-1.08)          | <0.001| 0.96 (0.94-0.97)          | <0.001|
| NH Unknown          | 0.67 (0.53-0.83)          | <0.001| 0.61 (0.52-0.72)          | <0.001|
| Insurance Status    |                          |       |                           |       |
| Insured             | Ref.                      | /     | Ref.                      | /     |
| Medicaid            | 2.12 (1.83-2.45)          | <0.001| 2.16 (1.98-2.35)          | <0.001|
| Uninsured           | 1.16 (0.99-1.36)          | 0.07  | 1.09 (0.98-1.21)          | 0.10  |
| Marital Status      |                          |       |                           |       |
| Married             | Ref.                      | /     | Ref.                      | /     |
| Single              | 0.79 (0.71-0.89)          | <0.001| 0.88 (0.82-0.93)          | <0.001|
| Divorced            | 1.23 (1.15-1.31)          | <0.001| 1.30 (1.25-1.35)          | <0.001|
| Widowed             | 1.74 (1.69-1.80)          | <0.001| 1.77 (1.74-1.80)          | <0.001|
| Separated           | 1.00 (0.90-1.12)          | 0.96  | 1.08 (1.02-1.14)          | 0.01  |
| Unmarried *         | /                         | /     | 0.86 (0.66-1.14)          | 0.31  |
| RUCA Category       |                          |       |                           |       |
| Urban               | Ref.                      | /     | Ref.                      | /     |
| Rural               | 1.31 (1.15-1.49)          | <0.001| 1.44 (1.34-1.54)          | <0.001|
| Yost tertile        |                          |       |                           |       |
| Low                 | Ref.                      | /     | Ref.                      | /     |
| Middle              | 0.83 (0.76-0.92)          | <0.001| 0.75 (0.71-0.79)          | <0.001|
| High                | 0.78 (0.75-0.82)          | <0.001| 0.72 (0.70-0.73)          | <0.001|

* Patients were classified as ICD-O-3 codes “8140-8389: adenomas and adenocarcinomas”.

* Unmarried status included “domestic partner”.

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Table 5. Multivariate survival analysis of all thyroid cancer patients by different factors.