**SUPPLEMENTAL TABLE 1.** Trends\* in annual age-adjusted incidence rates among persons of all ages for common cancers in nonmetropolitan and metropolitan areas,† by year of diagnosis — United States,§ 2004–2013

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cancer/county classification** | **Trend 1** | | | **Trend 2** | | | **AAPC** | | ***P*-value for difference in AAPCs¶** |  |
|  |
| **Years** | **APC** | | **Years** | **APC** | | **2004-2013** | |  |
| All sites |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2008 | 0.2 |  | 2008-2013 | 1.6 | \*\* | 0.8 | †† |  |  |
| Metropolitan | 2004-2008 | 0.3 |  | 2008-2013 | 1.9 | \*\* | 1.0 | †† | 0.40 |  |
| Breast |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.1 |  |  |  |  | 0.1 |  |  |  |
| Metropolitan | 2004-2013 | 0.2 |  |  |  |  | 0.2 |  | 0.10 |  |
| Breast (late stage) |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.7 | \*\* |  |  |  | 0.7 | †† |  |  |
| Metropolitan | 2004-2008 | 0.1 |  | 2008-2013 | 1.3 | \*\* | 0.7 | †† | 0.90 |  |
| Colon and rectum |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 2.8 | \*\* |  |  |  | 2.8 | †† |  |  |
| Metropolitan | 2004-2013 | 3.3 | \*\* |  |  |  | 3.3 | †† | **0.00** |  |
| Colon and rectum (late stage) |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2010 | 2.1 | \*\* | 2010-2013 | 0.8 |  | 1.7 | †† |  |  |
| Metropolitan | 2004-2013 | 2.7 | \*\* |  |  |  | 2.7 | †† | **0.00** |  |
| Lung |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2008 | 0.1 |  | 2008-2013 | 2.0 | \*\* | 1.2 | †† |  |  |
| Metropolitan | 2004-2008 | 1.1 | \*\* | 2008-2013 | 2.6 | \*\* | 1.9 | †† | **0.00** |  |
| Lung (late stage) |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2008 | 0.1 |  | 2008-2013 | 1.5 | \*\* | 0.9 | †† |  |  |
| Metropolitan | 2004-2008 | 1.3 | \*\* | 2008-2013 | 2.3 | \*\* | 1.8 | †† | **0.00** |  |
| Cervix |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 1.5 | \*\* |  |  |  | 1.5 | †† |  |  |
| Metropolitan | 2004-2009 | 0.6 |  | 2009-2013 | 2.3 | \*\* | 1.4 | †† | 0.70 |  |
| Cervix (late stage) |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.3 |  |  |  |  | 0.3 |  |  |  |
| Metropolitan | 2004-2013 | 0.7 | \*\* |  |  |  | 0.7 | †† | 0.30 |  |
| Prostate |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2007 | 2.2 |  | 2007-2013 | 7.3 | \*\* | 4.2 | †† |  |  |
| Metropolitan | 2004-2007 | 3.7 |  | 2007-2013 | 7.2 | \*\* | 3.7 | †† | 0.80 |  |
| Oral cavity and pharynx |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 1.2 | \*\* |  |  |  | 1.2 | †† |  |  |
| Metropolitan | 2004-2013 | 0.7 | \*\* |  |  |  | 0.7 | †† | **0.00** |  |
| Esophagus |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.8 | \*\* |  |  |  | 0.8 | †† |  |  |
| Metropolitan | 2004-2013 | 1.6 | \*\* |  |  |  | 1.6 | †† | **0.00** |  |
| Stomach |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.5 |  |  |  |  | 0.5 |  |  |  |
| Metropolitan | 2004-2013 | 0.7 | \*\* |  |  |  | 0.7 | †† | 0.30 |  |
| Liver and intrahepatic bile duct |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2007 | 6.0 | \*\* | 2007-2013 | 4.1 | \*\* | 4.7 | †† |  |  |
| Metropolitan | 2004-2009 | 4.5 | \*\* | 2009-2013 | 1.8 | \*\* | 3.3 | †† | **0.00** |  |
| Pancreas |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 1.1 | \*\* |  |  |  | 1.1 | †† |  |  |
| Metropolitan | 2004-2008 | 1.2 | \*\* | 2008-2013 | 0.3 |  | 0.7 | †† | 0.10 |  |
| Larynx |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 1.2 | \*\* |  |  |  | 1.2 | †† |  |  |
| Metropolitan | 2004-2013 | 2.6 | \*\* |  |  |  | 2.6 | †† | **0.00** |  |
| Melanoma |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 1.5 | \*\* |  |  |  | 1.5 | †† |  |  |
| Metropolitan | 2004-2013 | 1.0 | \*\* |  |  |  | 1.0 | †† | 0.10 |  |
| Corpus uteri and uterus NOS |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.8 | \*\* |  |  |  | 0.8 | †† |  |  |
| Metropolitan | 2004-2009 | 1.5 | \*\* | 2009-2013 | 0.7 | \*\* | 1.1 | †† | **0.00** |  |
| Ovary |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 1.7 | \*\* |  |  |  | 1.7 | †† |  |  |
| Metropolitan | 2004-2008 | 1.0 | \*\* | 2008-2013 | 2.6 | \*\* | 1.9 | †† | 0.50 |  |
| Urinary bladder |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.5 | \*\* |  |  |  | 0.5 | †† |  |  |
| Metropolitan | 2004-2013 | 1.1 | \*\* |  |  |  | 1.1 | †† | **0.00** |  |
| Kidney and renal pelvis |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2008 | 3.1 | \*\* | 2008-2013 | 0.4 |  | 1.6 | †† |  |  |
| Metropolitan | 2004-2007 | 2.9 | \*\* | 2007-2013 | 0.3 |  | 0.8 | †† | 0.10 |  |
| Brain and other nervous system |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 1.0 | \*\* |  |  |  | 1.0 | †† |  |  |
| Metropolitan | 2004-2008 | 0.2 |  | 2008-2013 | 1.2 | \*\* | 0.7 | †† | 0.40 |  |
| Thyroid |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2009 | 7.2 | \*\* | 2009-2013 | 2.3 |  | 5.0 | †† |  |  |
| Metropolitan | 2004-2009 | 7.1 | \*\* | 2009-2013 | 1.8 | \*\* | 4.7 | †† | 0.70 |  |
| Non-Hodgkin lymphoma |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2008 | 0.2 |  | 2008-2013 | 1.4 | \*\* | 0.9 | †† |  |  |
| Metropolitan | 2004-2009 | 0.1 |  | 2009-2013 | 1.6 | \*\* | 0.8 | †† | 0.70 |  |
| Myeloma |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.5 | \*\* |  |  |  | 0.5 | †† |  |  |
| Metropolitan | 2004-2013 | 1.0 | \*\* |  |  |  | 1.0 | †† | 0.10 |  |
| Leukemia |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2013 | 0.1 |  |  |  |  | 0.1 |  |  |  |
| Metropolitan | 2004-2013 | 0.3 |  |  |  |  | 0.3 |  | 0.60 |  |
| Other cancers |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2004-2010 | 0.8 | \*\* | 2010-2013 | 1.8 | \*\* | 0.1 |  |  |  |
| Metropolitan | 2004-2009 | 0.3 |  | 2009-2013 | 1.5 | \*\* | 0.5 | †† | 0.10 |  |

**Abbreviation:** APC = Annual percentage change; AAPC = Average annual percentage change.

\* Trends were calculated using joinpoint regression, which allowed different slopes for two periods; the year at which slopes changed could vary by county classification. APCs measure the slope during each period. AAPCs measure the average slope during the entire period 2004-2013.

† Nonmetropolitan and metropolitan areas were identified using the United States Department of Agriculture Economic Research Service 2013 vintage rural-urban continuum code (<https://www.ers.usda.gov/data-products/rural-urban-continuum-codes/>).

§ Cancer incidence compiled from cancer registries that meet the data quality criteria for all invasive cancer sites combined (covering approximately 97% of the U.S. population). Late stage cancers include those diagnosed at regional or distant stage, after the cancer has spread.

¶ Bold type indicates that the AAPC for nonmetropolitan areas was considered significantly different than the AAPC for metropolitan areas (p<0.05).

\*\* APC was significantly different than zero (p<0.05).

†† AAPC was significantly different than zero (p<0.05).

**SUPPLEMENTAL TABLE 2.** Trends\* in annual age-adjusted death rates among persons of all ages for common cancers in nonmetropolitan and metropolitan areas,† by year of death — United States,§ 2006–2015.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cancer/County classification** | **Trend 1** | | | | **Trend 2** | | | | **AAPC** | | | ***P*-value for difference in AAPCs¶** |
| **Years** | **APC** | | | **Years** | **APC** | | | **2006-2015** | | |
| All-sites |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 1.0 | \*\* |  |  |  |  |  | 1.0 | †† |  |  |
| Metropolitan | 2006-2015 | 1.6 | \*\* |  |  |  |  |  | 1.6 | †† |  | **0.00** |
| Female breast |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 1.0 | \*\* |  |  |  |  |  | 1.0 | \*\* |  |  |
| Metropolitan | 2006-2015 | 1.7 | \*\* |  |  |  |  |  | 1.7 | \*\* |  | **0.00** |
| Colon and rectum |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 1.6 | \*\* |  |  |  |  |  | 1.6 | †† |  |  |
| Metropolitan | 2006-2012 | 2.9 | \*\* |  | 2012-2015 | 1.8 | \*\* |  | 2.5 | †† |  | **0.00** |
| Lung |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2011 | 1.4 | \*\* |  | 2011-2015 | 2.4 | \*\* |  | 1.8 | †† |  |  |
| Metropolitan | 2006-2012 | 2.5 | \*\* |  | 2012-2015 | 3.5 | \*\* |  | 2.8 | †† |  | **0.00** |
| Cervix |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2010 | 3.0 |  |  | 2010-2015 | 1.6 |  |  | 0.5 |  |  |  |
| Metropolitan | 2006-2015 | 0.7 | \*\* |  |  |  |  |  | 0.7 | †† |  | 0.80 |
| Prostate |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 3.2 | \*\* |  |  |  |  |  | 3.2 | †† |  |  |
| Metropolitan | 2006-2015 | 3.1 | \*\* |  |  |  |  |  | 3.1 | †† |  | 0.70 |
| Oral cavity and pharynx |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.5 |  |  |  |  |  |  | 0.5 |  |  |  |
| Metropolitan | 2006-2015 | 0.1 |  |  |  |  |  |  | 0.1 |  |  | 0.30 |
| Esophagus |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.3 |  |  |  |  |  |  | 0.3 |  |  |  |
| Metropolitan | 2006-2015 | 1.2 | \*\* |  |  |  |  |  | 1.2 | \*\* |  | **0.00** |
| Stomach |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 2.0 | \*\* |  |  |  |  |  | 2.0 | †† |  |  |
| Metropolitan | 2006-2015 | 2.2 | \*\* |  |  |  |  |  | 2.2 | †† |  | 0.60 |
| Liver and intrahepatic bile duct |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 3.3 | \*\* |  |  |  |  |  | 3.3 | †† |  |  |
| Metropolitan | 2006-2013 | 2.9 | \*\* |  | 2013-2015 | 0.4 |  |  | 2.3 | †† |  | **0.00** |
| Pancreas |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.4 | \*\* |  |  |  |  |  | 0.4 | †† |  |  |
| Metropolitan | 2006-2015 | 0.0 |  |  |  |  |  |  | 0.0 |  |  | **0.00** |
| Larynx |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.8 | \*\* |  |  |  |  |  | 0.8 | †† |  |  |
| Metropolitan | 2006-2015 | 2.6 | \*\* |  |  |  |  |  | 2.6 | †† |  | **0.00** |
| Melanoma |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.1 |  |  |  |  |  |  | 0.1 |  |  |  |
| Metropolitan | 2006-2013 | 0.4 |  |  | 2013-2015 | 5.8 |  |  | 1.6 | †† |  | **0.00** |
| Corpus uteri and uterus NOS |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 1.0 | \*\* |  |  |  |  |  | 1.0 | †† |  |  |
| Metropolitan | 2006-2015 | 1.8 | \*\* |  |  |  |  |  | 1.8 | †† |  | 0.10 |
| Ovary |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 2.1 | \*\* |  |  |  |  |  | 2.1 | †† |  |  |
| Metropolitan | 2006-2015 | 2.5 | \*\* |  |  |  |  |  | 2.5 | †† |  | 0.20 |
| Urinary bladder |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.5 | \*\* |  |  |  |  |  | 0.5 | †† |  |  |
| Metropolitan | 2006-2015 | 0.3 | \*\* |  |  |  |  |  | 0.3 | †† |  | **0.00** |
| Kidney and renal pelvis |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.3 |  |  |  |  |  |  | 0.3 |  |  |  |
| Metropolitan | 2006-2015 | 0.8 | \*\* |  |  |  |  |  | 0.8 | †† |  | **0.00** |
| Brain and other nervous system |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.6 | \*\* |  |  |  |  |  | 0.6 | †† |  |  |
| Metropolitan | 2006-2015 | 0.6 | \*\* |  |  |  |  |  | 0.6 | †† |  | 0.80 |
| Thyroid |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.6 |  |  |  |  |  |  | 0.6 |  |  |  |
| Metropolitan | 2006-2015 | 0.2 |  |  |  |  |  |  | 0.2 |  |  | 0.40 |
| Non-Hodgkin lymphoma |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2012 | 1.6 | \*\* |  | 2012-2015 | 3.3 | \*\* |  | 2.2 | †† |  |  |
| Metropolitan | 2006-2015 | 2.3 | \*\* |  |  |  |  |  | 2.3 | †† |  | 0.80 |
| Myeloma |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.4 |  |  |  |  |  |  | 0.4 |  |  |  |
| Metropolitan | 2006-2015 | 0.5 |  |  |  |  |  |  | 0.5 |  |  | 0.70 |
| Leukemia |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 1.0 | \*\* |  |  |  |  |  | 1.0 | †† |  |  |
| Metropolitan | 2006-2013 | 0.8 | \*\* |  | 2013-2015 | 3.7 | \*\* |  | 1.5 | †† |  | 0.20 |
| Other cancers |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmetropolitan | 2006-2015 | 0.6 | \*\* |  |  |  |  |  | 0.6 | †† |  |  |
| Metropolitan | 2006-2013 | 1.4 | \*\* |  | 2013-2015 | 0.0 |  |  | 1.1 | †† |  | 0.10 |

**Abbreviation:** APC = Annual percentage change; AAPC = Average annual percentage change; NOS = Not otherwise specified.

\* Trends were calculated using joinpoint regression, which allowed different slopes for two periods; the year at which slopes changed could vary by county classification. APCs measure the slope during each period. AAPCs measure the average slope during the entire period 2006-2015.

† Nonmetropolitan and metropolitan areas were identified using the United States Department of Agriculture Economic Research Service 2013 vintage rural-urban continuum code (<https://www.ers.usda.gov/data-products/rural-urban-continuum-codes/>).

§ Data are from the National Vital Statistics System (NVSS) (covering 100% of the U.S. population).

¶ Bold type indicates that the AAPC for nonmetropolitan areas was considered significantly different than the AAPC for metropolitan areas (p<0.05).

\*\* APC was significantly different than zero (p<0.05).

†† AAPC was significantly different than zero (p<0.05).