

Appendix 1: Kidney Cancer Incidence and Mortality by County in Oklahoma, 2015-2019**Table 1. Kidney Cancer Incidence Rates by County in Oklahoma, 2015-2019**

| County | Total Number of Kidney Cancers | Crude Incidence Rate* | Age-Adjusted Incidence Rate* |
|------------|--------------------------------|-----------------------|------------------------------|
| Adair | 40 | 36.0 | 34.5 |
| Alfalfa | 14 | 48.0 | 34.4 |
| Atoka | 18 | 26.1 | 21.2 |
| Beaver | . | . | . |
| Beckham | 31 | 27.8 | 23.1 |
| Blaine | 13 | 27.1 | 18.1 |
| Bryan | 50 | 21.5 | 18.5 |
| Caddo | 40 | 27.3 | 23.3 |
| Canadian | 139 | 19.8 | 18.6 |
| Carter | 61 | 25.2 | 21.1 |
| Cherokee | 77 | 31.6 | 28.8 |
| Choctaw | 29 | 39.2 | 26.5 |
| Cimarron | . | . | . |
| Cleveland | 261 | 18.7 | 18.0 |
| Coal | . | . | . |
| Comanche | 120 | 19.7 | 19.4 |
| Cotton | . | . | . |
| Craig | 28 | 39.0 | 28.8 |
| Creek | 118 | 33.1 | 26.0 |
| Custer | 25 | 17.2 | 17.5 |
| Delaware | 58 | 27.3 | 20.6 |
| Dewey | 10 | 40.7 | 28.3 |
| Ellis | 10 | 49.8 | 30.7 |
| Garfield | 56 | 18.1 | 15.5 |
| Garvin | 32 | 23.0 | 18.9 |
| Grady | 61 | 22.2 | 18.1 |
| Grant | 10 | 45.5 | 34.4 |
| Greer | . | . | . |
| Harmon | . | . | . |
| Harper | . | . | . |
| Haskell | 22 | 34.6 | 26.7 |
| Hughes | 20 | 29.9 | 22.7 |
| Jackson | 29 | 23.2 | 20.4 |
| Jefferson | 13 | 42.3 | 29.9 |
| Johnston | 11 | 19.9 | 16.5 |
| Kay | 71 | 31.9 | 24.5 |
| Kingfisher | 28 | 35.5 | 29.8 |

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|--------------|-----|------|------|
| Kiowa | 16 | 36.0 | 24.7 |
| Latimer | 13 | 25.2 | 20.0 |
| Leflore | 54 | 21.6 | 17.5 |
| Lincoln | 48 | 27.5 | 21.9 |
| Logan | 55 | 23.5 | 18.3 |
| Love | 17 | 33.8 | 28.4 |
| McClain | 56 | 28.5 | 22.7 |
| McCurtain | 54 | 32.7 | 25.9 |
| McIntosh | 34 | 34.5 | 23.7 |
| Major | 14 | 36.4 | 22.7 |
| Marshall | 29 | 35.1 | 23.0 |
| Mayes | 66 | 32.2 | 26.5 |
| Murray | 17 | 24.4 | 16.7 |
| Muskogee | 102 | 29.7 | 24.9 |
| Noble | 22 | 38.8 | 28.0 |
| Nowata | 19 | 36.8 | 25.8 |
| Okfuskee | 22 | 36.5 | 31.1 |
| Oklahoma | 823 | 20.9 | 19.5 |
| Okmulgee | 68 | 35.1 | 27.3 |
| Osage | 42 | 17.8 | 14.7 |
| Ottawa | 60 | 38.1 | 32.4 |
| Pawnee | 26 | 31.7 | 24.1 |
| Payne | 63 | 15.4 | 17.0 |
| Pittsburg | 66 | 29.9 | 22.6 |
| Pontotoc | 63 | 32.8 | 29.9 |
| Pottawatomie | 91 | 25.2 | 20.6 |
| Pushmataha | 20 | 36.1 | 22.5 |
| Roger Mills | . | . | . |
| Rogers | 130 | 28.4 | 23.2 |
| Seminole | 33 | 26.6 | 23.2 |
| Sequoyah | 66 | 31.6 | 23.1 |
| Stephens | 68 | 31.1 | 22.7 |
| Texas | 18 | 17.2 | 18.2 |
| Tillman | . | . | . |
| Tulsa | 840 | 26.0 | 23.3 |
| Wagoner | 102 | 25.8 | 22.0 |
| Washington | 55 | 21.2 | 16.0 |
| Washita | 16 | 28.5 | 20.3 |
| Woods | . | . | . |
| Woodward | 31 | 29.9 | 25.5 |

*rate per 100,000

Table 2. Kidney Cancer Mortality Rates by County in Oklahoma, 2015-2019

| County | Total Number of Kidney Cancer Deaths | Crude Mortality Rate* | Age-Adjusted Mortality Rate* |
|------------|--------------------------------------|-----------------------|------------------------------|
| Adair | 10 | 9.1 | 7.6 |
| Alfalfa | . | . | . |
| Atoka | 8 | 11.6 | 7.8 |
| Beaver | . | . | . |
| Beckham | 9 | 8.1 | 7.3 |
| Blaine | . | . | . |
| Bryan | 12 | 5.2 | 4.0 |
| Caddo | 9 | 6.2 | 5.5 |
| Canadian | 28 | 4.0 | 4.0 |
| Carter | 19 | 7.9 | 6.0 |
| Cherokee | 13 | 5.3 | 4.6 |
| Choctaw | 7 | 9.4 | 5.8 |
| Cimarron | . | . | . |
| Cleveland | 65 | 4.6 | 4.5 |
| Coal | . | . | . |
| Comanche | 24 | 3.9 | 4.0 |
| Cotton | . | . | . |
| Craig | . | . | . |
| Creek | 21 | 5.9 | 4.2 |
| Custer | 9 | 6.2 | 5.7 |
| Delaware | 19 | 9.0 | 5.1 |
| Dewey | . | . | . |
| Ellis | . | . | . |
| Garfield | 13 | 4.2 | 3.4 |
| Garvin | 16 | 11.5 | 8.9 |
| Grady | 22 | 8.0 | 6.4 |
| Grant | . | . | . |
| Greer | . | . | . |
| Harmon | . | . | . |
| Harper | . | . | . |
| Haskell | . | . | . |
| Hughes | . | . | . |
| Jackson | 8 | 6.4 | 5.4 |
| Jefferson | . | . | . |
| Johnston | . | . | . |
| Kay | 16 | 7.2 | 4.8 |
| Kingfisher | 6 | 7.6 | 5.9 |
| Kiowa | . | . | . |
| Latimer | . | . | . |

| | | | |
|--------------|-----|------|------|
| Leflore | 15 | 6.0 | 4.7 |
| Lincoln | 7 | 4.0 | 3.0 |
| Logan | 14 | 6.0 | 4.9 |
| Love | . | . | . |
| McClain | 12 | 6.1 | 5.6 |
| McCurtain | 13 | 7.9 | 5.5 |
| McIntosh | 12 | 12.1 | 7.8 |
| Major | . | . | . |
| Marshall | 6 | 7.3 | 4.9 |
| Mayes | 15 | 7.3 | 5.4 |
| Murray | . | . | . |
| Muskogee | 23 | 6.7 | 5.5 |
| Noble | 7 | 12.4 | 8.0 |
| Nowata | . | . | . |
| Okfuskee | 10 | 16.5 | 11.9 |
| Oklahoma | 164 | 4.2 | 3.9 |
| Okmulgee | 16 | 8.2 | 6.0 |
| Osage | 11 | 4.6 | 3.2 |
| Ottawa | 8 | 5.1 | 3.9 |
| Pawnee | 8 | 9.7 | 6.6 |
| Payne | 7 | 1.7 | 1.8 |
| Pittsburg | 21 | 9.5 | 6.7 |
| Pontotoc | 10 | 5.2 | 4.5 |
| Pottawatomie | 19 | 5.3 | 4.4 |
| Pushmataha | 6 | 10.8 | 5.9 |
| Roger Mills | . | . | . |
| Rogers | 28 | 6.1 | 4.7 |
| Seminole | 6 | 4.8 | 4.0 |
| Sequoyah | 17 | 8.2 | 6.2 |
| Stephens | 19 | 8.7 | 6.8 |
| Texas | 7 | 6.7 | 7.2 |
| Tillman | . | . | . |
| Tulsa | 160 | 5.0 | 4.5 |
| Wagoner | 18 | 4.6 | 3.8 |
| Washington | 18 | 6.9 | 4.5 |
| Washita | . | . | . |
| Woods | . | . | . |
| Woodward | 6 | 5.8 | 4.9 |

*rate per 100,000

Counts and resulting rates listed as '.' are suppressed due to small numbers.