

Cancer in Oklahoma: 2025 Annual Report



Community Outreach and Engagement Core



OVERVIEW

The mission of the Stephenson Cancer Center (SCC) is to eliminate cancer in Oklahoma, the SCC's catchment area, and beyond. To advance this mission, the SCC fosters and supports research projects in the basic, clinical, behavioral, and population sciences that specifically address cancers and cancer problems prevalent in Oklahoma.

Some SCC-sponsored intramural funding opportunities include a focus on catchment area Priority Cancers and relevant modifiable risk factors as a preference in the scoring criteria. The attached information is intended to help SCC members identify these high incidence and high mortality cancers and cancer problems.

PRIORITY CANCER IN OKLAHOMA

- Colorectal
- Pancreas
- Gynecological Cancer (Ovary, Uterine, Cervix)
- Tobacco Related Cancer (Lung and Bronchus, Oral Cavity and Pharynx, Kidney)

Measured priority cancers

Stephenson Cancer Center priority cancer incidence (2018-2022) and mortality (2019-2023) rates and percent difference for the US and Oklahoma				
		All Races (US)	All Races (OK)	Percent Difference US vs OK
Colorectal	Incidence	36.7	40.6	11%
	Mortality	12.8	16.3	27%
Pancreas	Incidence	13.7	12.6	-8%
	Mortality	11.2	11.1	-1%
Gynecological Cancer				
Ovarian	Incidence	10.0	10.4	4%
	Mortality	5.9	6.4	8%
Uterine	Incidence	27.9	25.7	-8%
	Mortality	5.3	5.1	-4%
Cervical	Incidence	7.5	10.1	35%
	Mortality	2.2	3.3	50%
Tobacco-Related Cancers				
Lung and Bronchus	Incidence	52.5	62.9	20%
	Mortality	31.3	43.6	39%
Oral Cavity and Pharynx	Incidence	12.1	13.9	15%
	Mortality	2.6	3.1	19%
Kidney	Incidence	17.5	22.0	26%
	Mortality	3.4	4.8	41%
Non-Priority Monitored Cancers				
Breast	Incidence	131.3	127.1	-3%
	Mortality	19.1	22.1	16%
Liver	Incidence	8.6	9.3	8%
	Mortality	6.6	7.7	17%
Prostate	Incidence	116.4	108.0	-7%
	Mortality	18.9	20.4	8%
Melanoma of the skin	Incidence	23.1	21.0	-9%
	Mortality	2.0	2.5	25%

Source: CDC WONDER

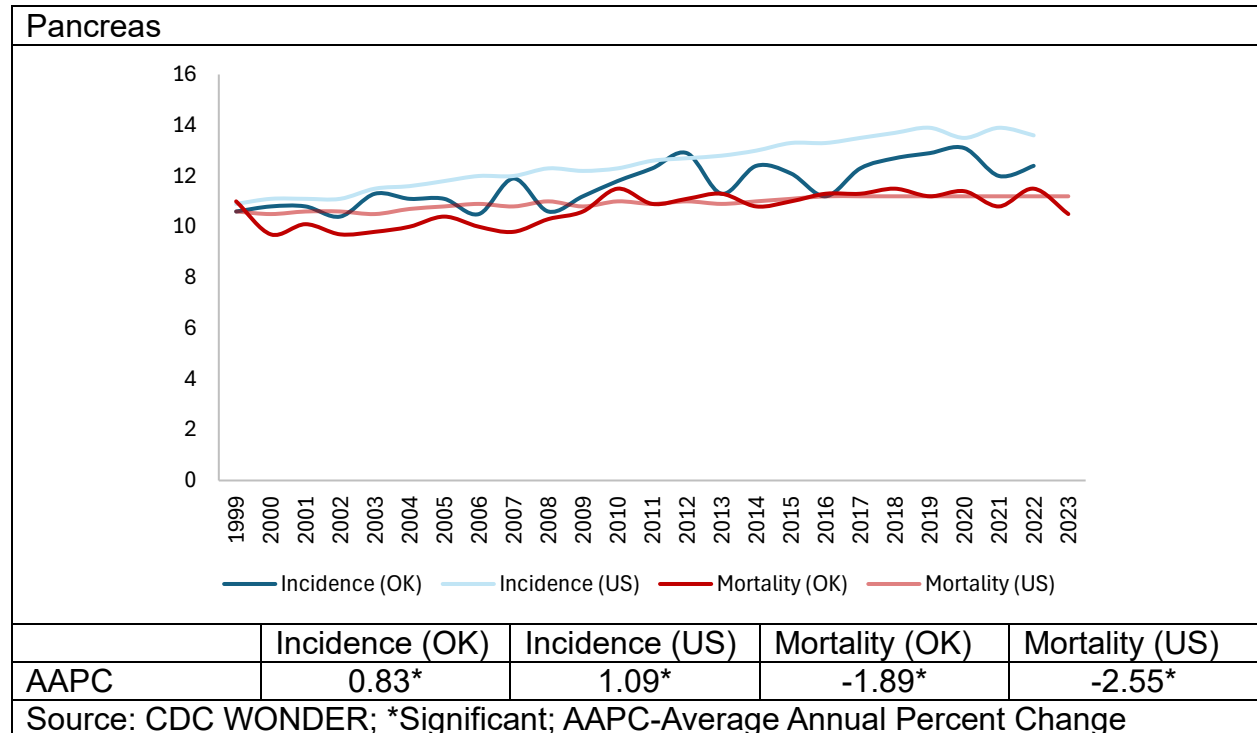
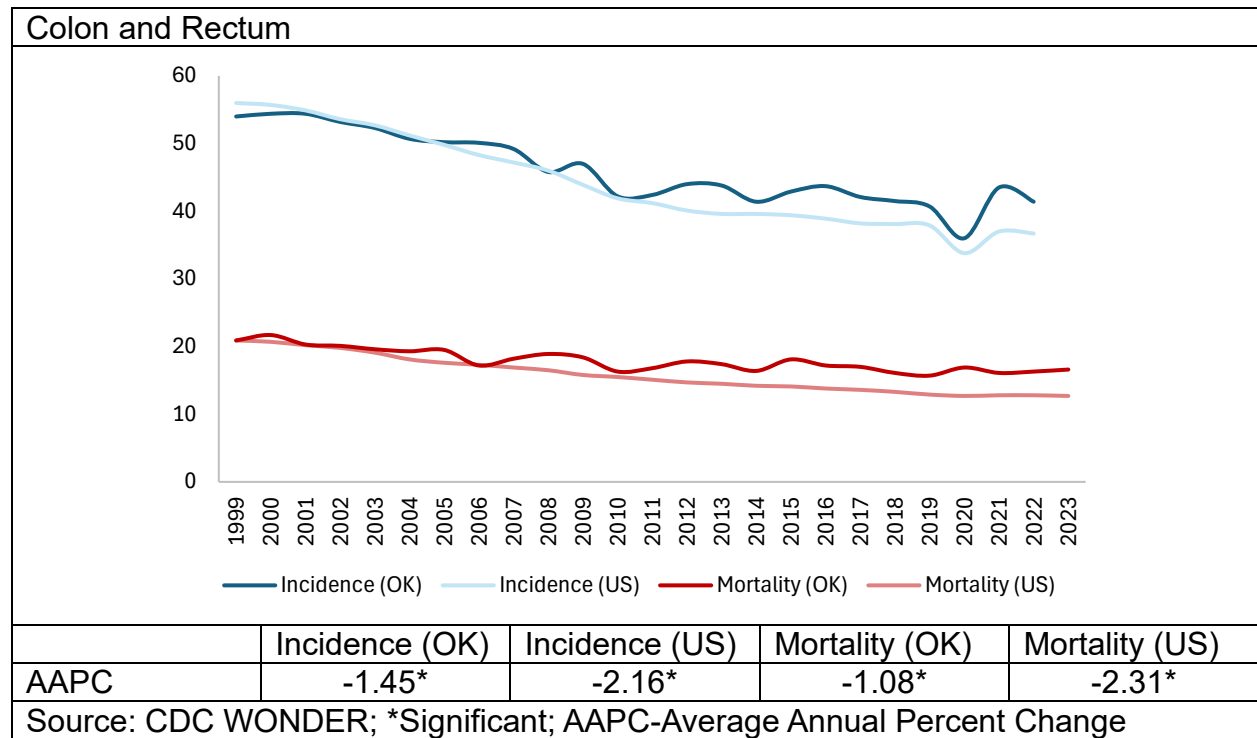
Stephenson Cancer Center priority cancer incidence (2018-2022) and mortality (2019-2023) rates for the US and Oklahoma

		All Races (US)	All Races (OK)	Significance Difference
		Rate	Rate	
Colorectal	Incidence	36.7	40.6	Higher
	Mortality	12.8	16.3	Higher
Pancreas	Incidence	13.7	12.6	Lower
	Mortality	11.2	11.1	No
Gynecological Cancer				
Ovarian	Incidence	10.0	10.4	No
	Mortality	5.9	6.4	Higher
Uterine	Incidence	27.9	25.7	Lower
	Mortality	5.3	5.1	No
Cervical	Incidence	7.5	10.1	Higher
	Mortality	2.2	3.3	Higher
Tobacco-Related Cancers				
Lung and Bronchus	Incidence	52.5	62.9	Higher
	Mortality	31.3	43.6	Higher
Oral Cavity and Pharynx	Incidence	12.1	13.9	Higher
	Mortality	2.6	3.1	Higher
Kidney	Incidence	17.5	22.0	Higher
	Mortality	3.4	4.8	Higher
Non-Priority Monitored Cancers				
Breast	Incidence	131.3	127.1	Lower
	Mortality	19.1	22.1	Higher
Liver	Incidence	8.6	9.3	Higher
	Mortality	6.6	7.7	Higher
Prostate	Incidence	116.4	108	Lower
	Mortality	18.9	20.4	Higher
Melanoma of the skin	Incidence	23.1	21.0	Lower
	Mortality	2.0	2.5	Higher
Source: CDC WONDER				

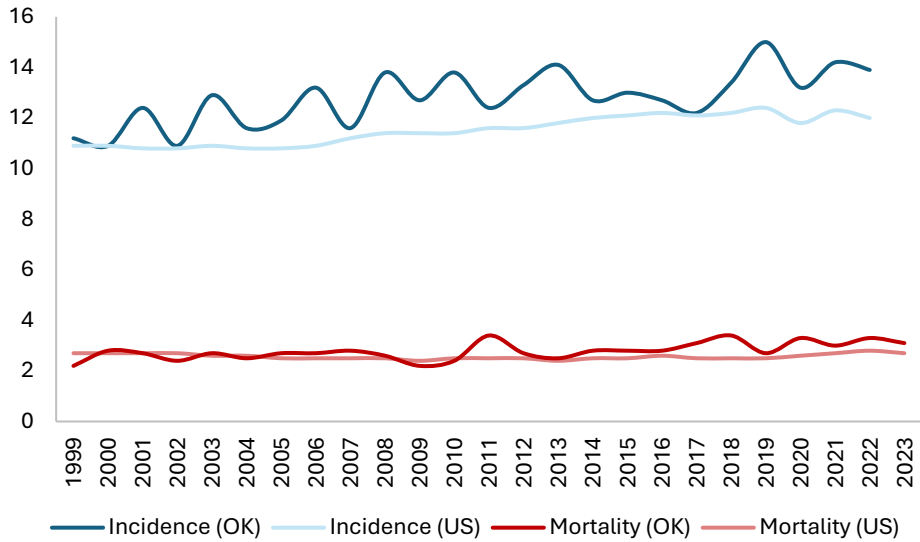
Stephenson Cancer Center priority cancer (2018-2022) and mortality (2019-2023) rates by race for Oklahoma						
		NH White	NH Black	NH American Indian/Alaskan Native	NH Asian	Hispanic
Colorectal	Incidence	38.7	41.4	66.5	34.2	34.2
	Mortality	16.3	18.7	19.5	12.3	9.7
Pancreas	Incidence	11.8	16.9	19.1	10.6	10.7
	Mortality	10.9	15.2	11.6	7.9	8.4
Gynecological Cancer						
Ovarian	Incidence	10.1	8.1	14.5	15.5	6.2
	Mortality	6.6	5.6	6.9	*	3.4
Uterine	Incidence	24.2	29.8	36.2	20.9	25
	Mortality	4.5	10.9	6.7	*	4.6
Cervical	Incidence	9.4	8.3	17.3	10.8	9.7
	Mortality	3.4	3.8	3.3	*	2.5
Tobacco-Related Cancers						
Lung and Bronchus	Incidence	62.3	63.8	94.8	36.4	32.9
	Mortality	45.5	43.5	48.3	25.1	17.4
Oral Cavity and Pharynx	Incidence	14.2	9.6	19.3	6.0	6.6
	Mortality	3.2	3.2	3.3	*	1.4
Kidney	Incidence	20.3	19.7	46.7	8.3	17.9
	Mortality	4.8	4.1	7.6	*	2.9
Non-Priority Monitored Cancers						
Breast	Incidence	126.5	138.1	150.2	97.1	92.1
	Mortality	22.4	28.9	22.2	11.4	13.2
Liver	Incidence	7.9	9.5	21.4	13.7	12.0
	Mortality	7.2	6.9	13.1	10.2	8.3
Prostate	Incidence	101.4	188.0	123.2	69.3	72.0
	Mortality	19.7	43.0	16.8	*	12.1
Melanoma of the skin	Incidence	22.6	*	19.3	*	8.4
	Mortality	2.9	*	1.3	*	*
Red-Significantly higher than NH White						
Green-Significantly lower than NH White						
Source: CDC WONDER						

Stephenson Cancer Center priority cancer (2018-2022) and mortality (2019-2023) rates by rural counties for Oklahoma				
		All Races	Rural	Urban
Colorectal	Incidence	40.6	46.6	40.9
	Mortality	16.3	18.2	14.9
Pancreas	Incidence	12.6	13.4	12.2
	Mortality	11.1	11.3	10.8
Gynecological Cancers				
Ovarian	Incidence	10.4	10.8	10.2
	Mortality	6.4	6.0	6.5
Uterine	Incidence	25.7	26.7	25.3
	Mortality	5.1	5.1	5.0
Cervical	Incidence	10.1	11.6	9.4
	Mortality	3.3	3.8	3.0
Tobacco Related Cancers				
Lung and Bronchus	Incidence	62.9	70.8	58.5
	Mortality	43.6	49.6	39.3
Oral Cavity and Pharynx	Incidence	13.9	15.3	13.1
	Mortality	3.1	3.3	3.0
Kidney	Incidence	22	24.8	20.7
	Mortality	4.8	5.4	4.2
Non-Priority Monitored Cancers				
Breast	Incidence	127.1	121.3	130.4
	Mortality	22.1	11.8	21.7
Liver	Incidence	9.3	8.6	9.1
	Mortality	7.7	6.9	5.8
Prostate	Incidence	108.0	95.5	115.1
	Mortality	20.4	18.9	20.4
Melanoma of the skin	Incidence	21.0	17.0	21.2
	Mortality	2.5	2.6	2.3
Red-Significantly higher than overall rates				
Green-Significantly lower than overall rates				
Source: CDC WONDER				

HISTORICAL TRENDS



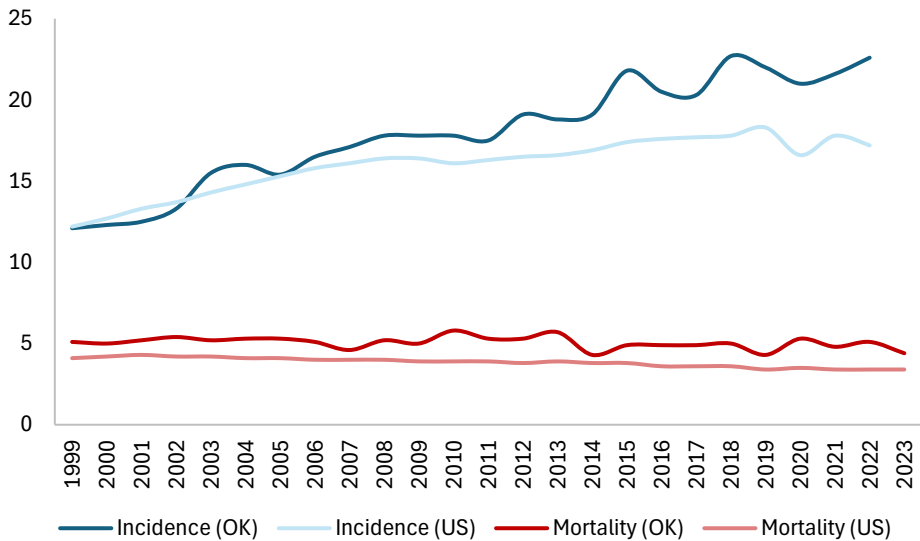
Oral Cavity and Pharynx



	Incidence (OK)	Incidence (US)	Mortality (OK)	Mortality (US)
AAPC	0.81*	0.65*	-1.20*	-2.10*

Source: CDC WONDER; *Significant; AAPC-Average Annual Percent Change

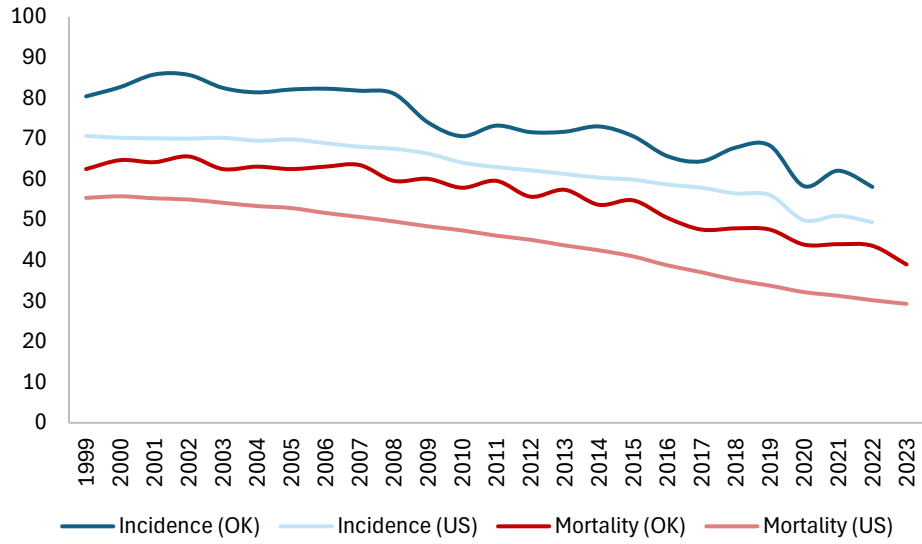
Kidney



	Incidence (OK)	Incidence (US)	Mortality (OK)	Mortality (US)
AAPC	2.53*	1.31*	-0.40	-0.98*

Source: CDC WONDER; *Significant; AAPC-Average Annual Percent Change

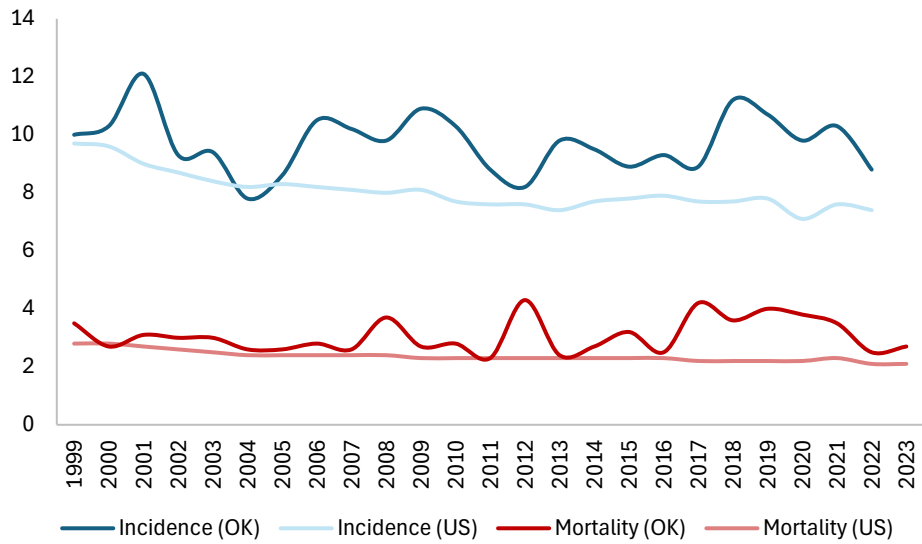
Lung



	Incidence (OK)	Incidence (US)	Mortality (OK)	Mortality (US)
AAPC	-1.55*	-1.63*	-1.89*	-2.55*

Source: CDC WONDER; *Significant; AAPC-Average Annual Percent Change

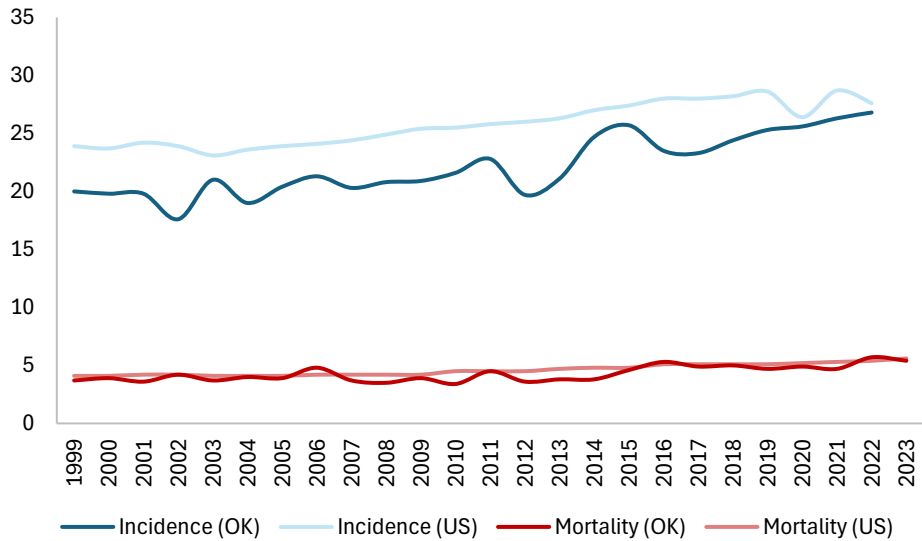
Cervix



	Incidence (OK)	Incidence (US)	Mortality (OK)	Mortality (US)
AAPC	-0.16	-1.00*	0.49	-0.95*

Source: CDC WONDER; *Significant; AAPC-Average Annual Percent Change

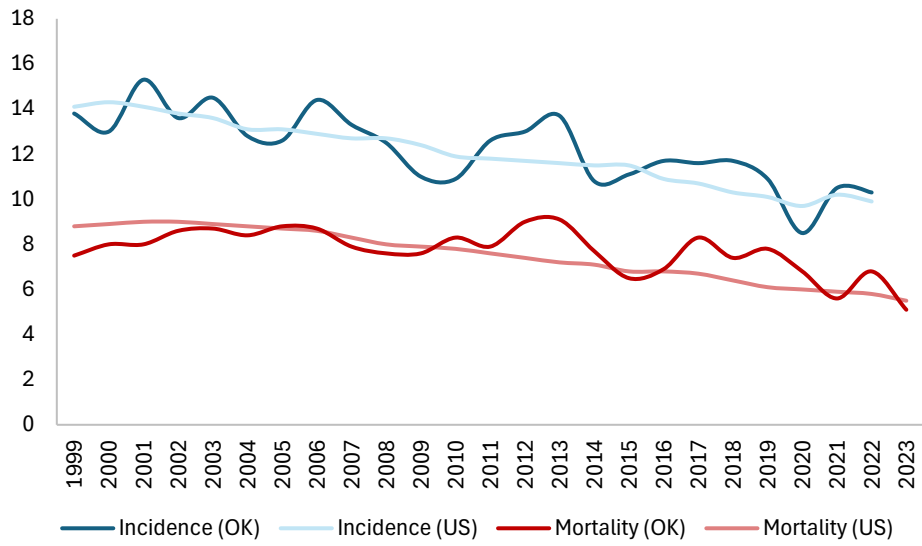
Uterine



	Incidence (OK)	Incidence (US)	Mortality (OK)	Mortality (US)
AAPC	1.47*	0.93*	1.49*	1.37*

Source: CDC WONDER; *Significant; AAPC-Average Annual Percent Change

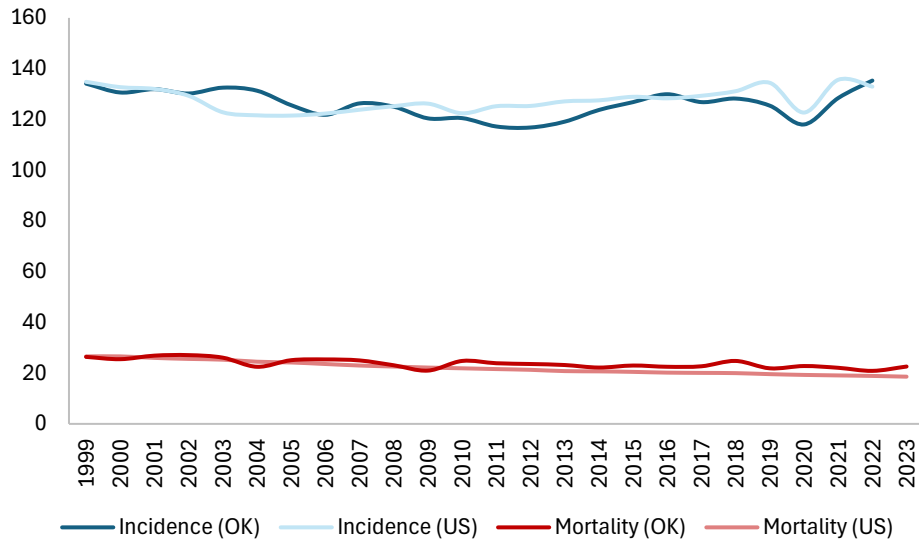
Ovary



	Incidence (OK)	Incidence (US)	Mortality (OK)	Mortality (US)
AAPC	-1.44*	-1.65*	-1.20*	-2.10*

Source: CDC WONDER; *Significant; AAPC-Average Annual Percent Change

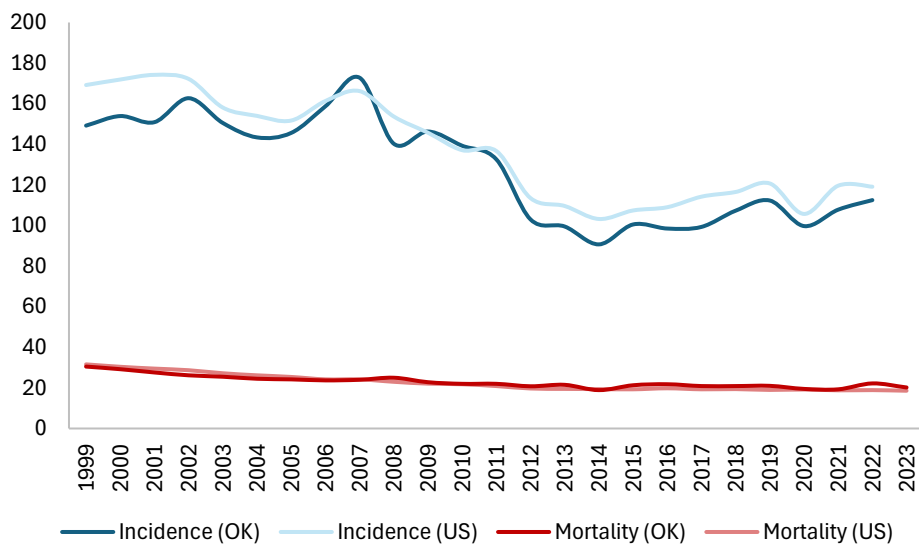
Female Breast



	Incidence (OK)	Incidence (US)	Mortality (OK)	Mortality (US)
AAPC	-0.13	0.10	-0.76*	-1.55*

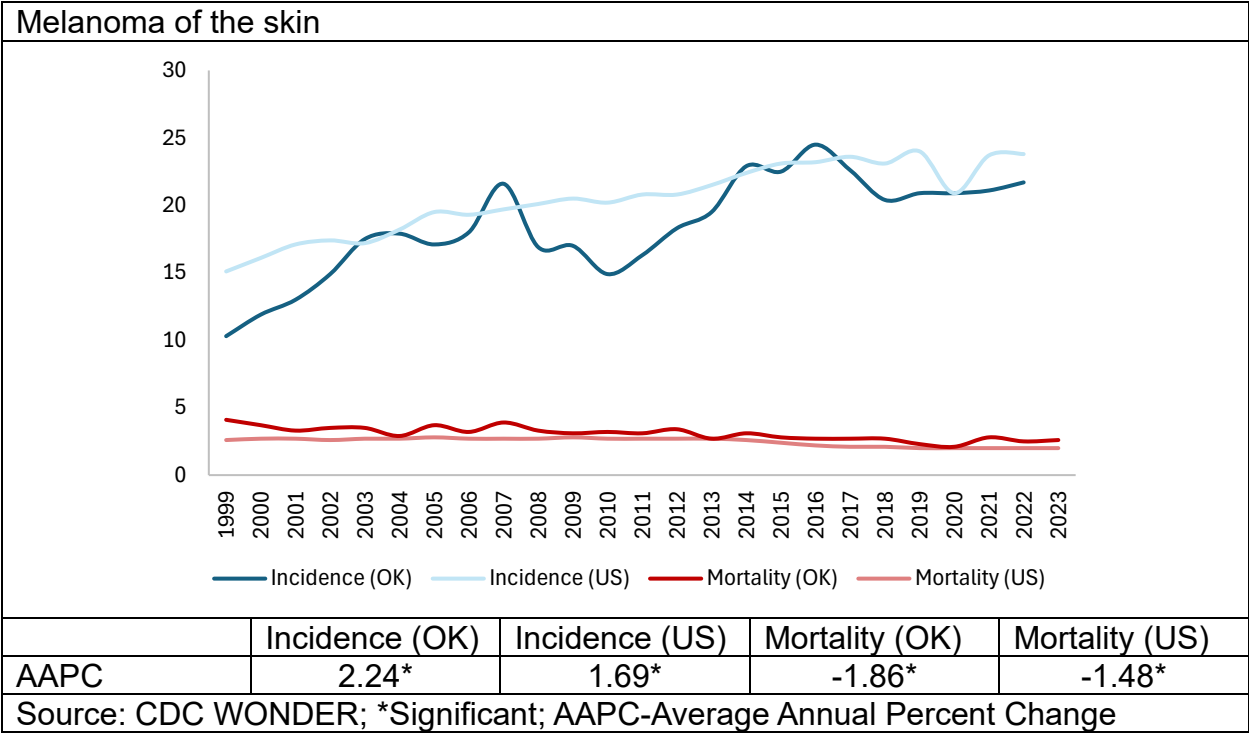
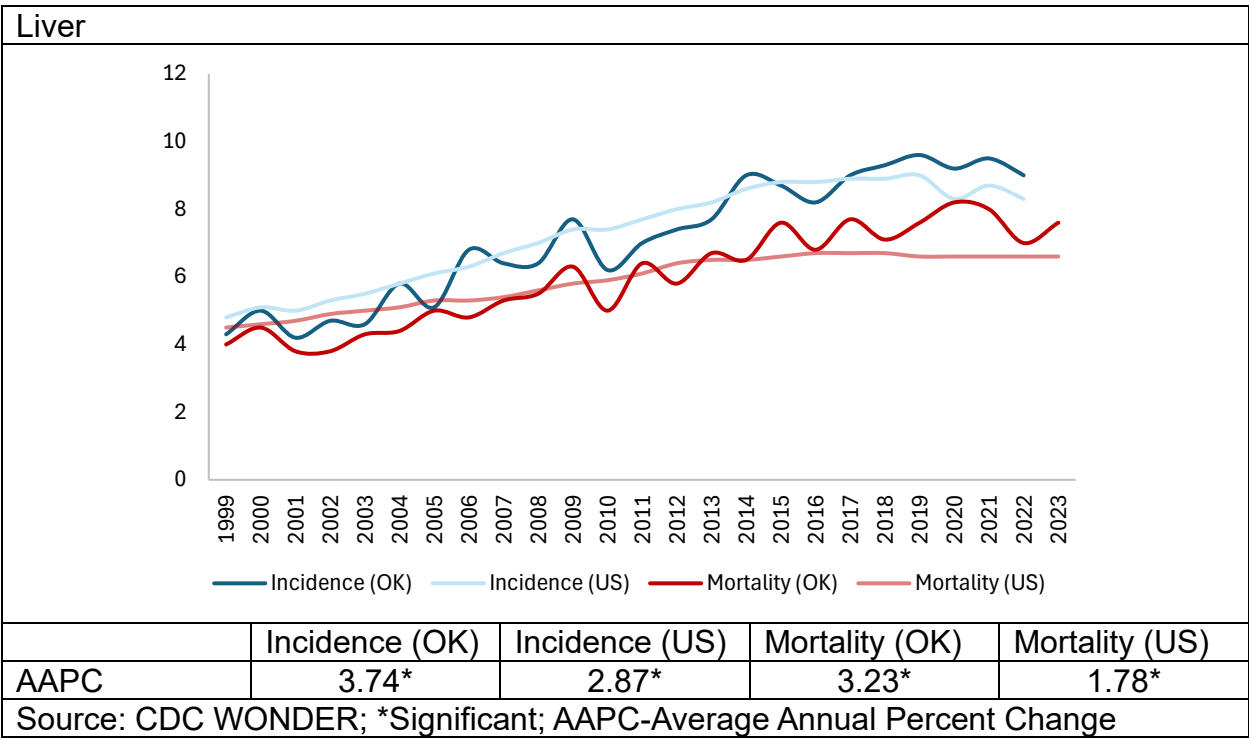
Source: CDC WONDER; *Significant; AAPC-Average Annual Percent Change

Prostate



	Incidence (OK)	Incidence (US)	Mortality (OK)	Mortality (US)
AAPC	-2.28*	-2.17*	-1.48*	-2.09*

Source: CDC WONDER; *Significant; AAPC-Average Annual Percent Change



MODIFIABLE RISK FACTORS ASSOCIATED WITH PRIORITY CANCERS

Stephenson Cancer Center modifiable risk factor, Oklahoma state ranking, 2020-2024					
	2020	2021 ¹	2022	2023 ²	2024 ³
Tobacco Use/Smoking Cigarettes	44/51	40/50	40/51	47/49	42/50
Obesity	43/51	47/50	49/51	44/49	37/50
Heavy Alcohol Use	3/51	1/50	1/51	5/49	9/50
Access to Health Care (18-64)	47/51	46/50	43/51	39/49	46/50
Mammography Screening	43/51		46/51		39/50
Cervical Cancer Screening⁴	46/51				35/50
Colorectal Cancer Screening	49/51		48/51		44/50
Lung Cancer Screening			46/51		49/50
1 Florida excluded; 2 Kentucky and Pennsylvania excluded; 3 Tennessee excluded *Pap only Includes District of Columbia Source: BRFSS					

CANCER INCIDENCE IN OKLAHOMA

Race/Ethnicity population in Oklahoma rate vs US Rate (All Races)

Urban/Rural status in Oklahoma rate vs OK rate (All Races)

Age-adjusted incidence rates per 100,000

5-year Annual Average (2018-2022)

Stephenson Cancer Center, all races, Oklahoma and US cancer incidence rates, percent difference US and Oklahoma, and Oklahoma ranking 2018-2022				
Site	US (All Races)	Oklahoma (All Races)	OK (All races) vs US (all races)	OK Ranking by incidence
Brain and Other Nervous System	6.3	6.3	0%	18
Breast	69.4	67.0	-3%	2
Cervix Uteri	7.5	10.1	35%	15
Colon and Rectum	36.7	40.6	11%	4
Corpus Uteri	26.9	24.9	-7%	5
Esophagus	4.6	5.1	11%	20
Gallbladder	1.1	0.8	-27%	22
Kidney and Renal Pelvis	17.5	22.0	26%	6
Larynx	2.8	3.2	14%	21
Leukemias	14.3	13.5	-6%	11
Liver	6.8	8.0	18%	16
Lung and Bronchus	52.5	62.9	20%	3
Melanoma of the Skin	23.1	21.0	-9%	7
Myeloma	7.2	6.8	-6%	17
Non-Hodgkin Lymphoma	18.5	17.4	-6%	9
Oral Cavity and Pharynx	12.1	13.9	15%	10
Ovary	10.0	10.4	4%	14
Pancreas	13.7	12.6	-8%	13
Prostate	116.4	108.0	-7%	1
Stomach	6.5	5.4	-17%	19
Thyroid	12.9	12.7	-2%	12
Urinary Bladder, invasive and in situ	18.8	18.3	-3%	8
Source: CDC WONDER				

Stephenson Cancer Center, NH White, Oklahoma and US cancer incidence rates, percent difference US and Oklahoma, and Oklahoma ranking 2018-2022				
Site	US (NH White)	Oklahoma (NH White)	OK (NH White) vs US (NH White)	OK Ranking by incidence
Brain and Other Nervous System	7.1	6.7	-6%	17
Breast	71.6	66.6	-7%	2
Cervix Uteri	7	9.4	34%	15
Colon and Rectum	36.8	38.7	5%	4
Corpus Uteri	26.8	23.6	-12%	5
Esophagus	5.2	5.3	2%	19
Gallbladder	0.8	0.7	-13%	22
Kidney and Renal Pelvis	17.7	20.3	15%	7
Larynx	3	3.1	3%	21
Leukemias	15.2	13.4	-12%	11
Liver	5.7	6.8	19%	16
Lung and Bronchus	56.9	62.3	9%	3
Melanoma of the Skin	30.4	22.6	-26%	6
Myeloma	6.3	5.8	-8%	18
Non-Hodgkin Lymphoma	19.4	17.3	-11%	9
Oral Cavity and Pharynx	13.6	14.2	4%	10
Ovary	10.2	10.1	-1%	14
Pancreas	13.7	11.8	-14%	13
Prostate	111.1	101.4	-9%	1
Stomach	5.2	4.6	-12%	20
Thyroid	13.5	12.1	-10%	12
Urinary Bladder, invasive and in situ	21.4	19.2	-10%	8
Source: CDC WONDER				

Stephenson Cancer Center, NH Black, Oklahoma and US cancer incidence rates, percent difference US and Oklahoma, and Oklahoma ranking 2018-2022				
Site	US (NH Black)	Oklahoma (NH Black)	OK (NH Black) vs US (NH Black)	OK Ranking by incidence
Brain and Other Nervous System	4	3.6	-10%	19
Breast	73.5	74.8	2%	2
Cervix Uteri	8.2	8.3	1%	14
Colon and Rectum	40.9	41.4	1%	4
Corpus Uteri	27.7	28.3	2%	5
Esophagus	3.4	3.1	-9%	20
Gallbladder	1.7	1.1	-35%	21
Kidney and Renal Pelvis	19	19.7	4%	6
Larynx	3.7	4.1	11%	18
Leukemias	11	10.6	-4%	11
Liver	8.2	7.5	-9%	16
Lung and Bronchus	54	63.8	18%	3
Melanoma of the Skin	0.9			
Myeloma	14.6	17.4	19%	7
Non-Hodgkin Lymphoma	13.8	14.2	3%	9
Oral Cavity and Pharynx	8.4	9.6	14%	13
Ovary	8.7	8.1	-7%	15
Pancreas	16.6	16.9	2%	8
Prostate	185.6	188	1%	1
Stomach	9.9	9.8	-1%	12
Thyroid	7.7	6.9	-10%	17
Urinary Bladder, invasive and in situ	11.5	12.4	8%	10

Source: CDC WONDER

Stephenson Cancer Center, NH American Indian/Alaska Native (AIAN), Oklahoma and US cancer incidence rates, percent difference US and Oklahoma, and Oklahoma ranking 2018-2022				
Site	US (NH AIAN)	Oklahoma (NH AIAN)	OK (NH AIAN) vs US (NH AIAN)	OK Ranking by incidence
Brain and Other Nervous System	5.2	8.6	65%	18
Breast	59	80.9	37%	3
Cervix Uteri	10.2	17.3	70%	14
Colon and Rectum	41.5	66.5	60%	4
Corpus Uteri	26.6	34.2	29%	6
Esophagus	4.8	7	46%	20
Gallbladder	1.6	1.5	-6%	22
Kidney and Renal Pelvis	26.1	46.7	79%	5
Larynx	3	5.6	87%	21
Leukemias	11.8	16.6	41%	15
Liver	12.4	18.8	52%	12
Lung and Bronchus	53.6	94.8	77%	2
Melanoma of the Skin	9.1	19.3	112%	9
Myeloma	6.7	9.9	48%	17
Non-Hodgkin Lymphoma	14.5	22.3	54%	7
Oral Cavity and Pharynx	11.4	19.3	69%	9
Ovary	10.4	14.5	39%	16
Pancreas	12.9	19.1	48%	11
Prostate	81.5	123.2	51%	1
Stomach	8.2	8.1	-1%	19
Thyroid	12.7	20.5	61%	8
Urinary Bladder, invasive and in situ	11.6	18.8	62%	12
Source: CDC WONDER				

Stephenson Cancer Center, NH Asian Oklahoma and US cancer incidence rates, percent difference US and Oklahoma, and Oklahoma ranking 2018-2022				
Site	US (NH Asian)	Oklahoma (NH Asian)	OK (NH Asian) vs US (NH Asian)	OK Ranking by incidence
Brain and Other Nervous System	3.9	5.3	36%	17
Breast	59	54.7	-7%	2
Cervix Uteri	5.8	10.8	86%	10
Colon and Rectum	28.6	34.2	20%	4
Corpus Uteri	21.5	19.6	-9%	5
Esophagus	2.2			
Gallbladder	1.3			
Kidney and Renal Pelvis	8.1	8.3	2%	12
Larynx	1			
Leukemias	8.1	5.9	-27%	16
Liver	9.1	11	21%	9
Lung and Bronchus	32.5	36.4	12%	3
Melanoma of the Skin	1.2			
Myeloma	4	5	25%	18
Non-Hodgkin Lymphoma	13.3	15.9	20%	7
Oral Cavity and Pharynx	8.4	6	-29%	15
Ovary	9.3	15.5	67%	8
Pancreas	9.9	10.6	7%	11
Prostate	61.8	69.3	12%	1
Stomach	8.8	7.9	-10%	13
Thyroid	14.4	16.1	12%	6
Urinary Bladder, invasive and in situ	8.2	7.2	-12%	14
Source: CDC WONDER				

Stephenson Cancer Center, Hispanic Oklahoma and US cancer incidence rates, percent difference US and Oklahoma, and Oklahoma ranking 2018-2022				
Site	US (Hispanic)	Oklahoma (Hispanic)	OK (Hispanic) vs US (Hispanic)	OK Ranking by incidence
Brain and Other Nervous System	5.2	3.8	-27%	19
Breast	53.9	45.2	-16%	2
Cervix Uteri	9.6	9.7	1%	12
Colon and Rectum	33.1	31.9	-4%	4
Corpus Uteri	25.6	24	-6%	5
Esophagus	2.8	3.2	14%	20
Gallbladder	1.8	1.9	6%	21
Kidney and Renal Pelvis	17.9	17.9	0%	6
Larynx	2			
Leukemias	11.7	10.8	-8%	9
Liver	11.6	10.5	-9%	11
Lung and Bronchus	27.7	32.9	19%	3
Melanoma of the Skin	4.8	8.4	75%	13
Myeloma	6.8	5.1	-25%	18
Non-Hodgkin Lymphoma	17.5	12.4	-29%	7
Oral Cavity and Pharynx	7.4	6.6	-11%	16
Ovary	9.9	6.2	-37%	17
Pancreas	12.3	10.7	-13%	10
Prostate	88.6	72	-19%	1
Stomach	9.4	7.3	-22%	14
Thyroid	13.2	12.2	-8%	8
Urinary Bladder, invasive and in situ	10.6	7.2	-32%	15

Source: CDC WONDER

Stephenson Cancer Center, Rural Oklahoma and Overall Oklahoma cancer incidence rates, percent difference US and Oklahoma, and Oklahoma ranking 2018-2022				
Site	Oklahoma (All Races)	Rural (All Races)	OK (All races) vs US (all races)	OK Ranking by incidence
Brain and Other Nervous System	6.3	6.8	8%	17
Breast	67.0	62.9	-6%	3
Cervix Uteri	10.1	11.6	15%	14
Colon and Rectum	42.9	46.6	9%	4
Corpus Uteri	25.7	26.7	4%	5
Esophagus	5.1	5.4	6%	20
Gallbladder	0.8	0.8	0%	22
Kidney and Renal Pelvis	22.0	24.8	13%	6
Larynx	3.2	3.8	19%	21
Leukemias	13.5	14.4	7%	11
Liver	8.0	8.6	8%	16
Lung and Bronchus	62.9	70.8	13%	2
Melanoma of the Skin	21.0	20.8	-1%	7
Myeloma	6.8	6.0	-12%	18
Non-Hodgkin Lymphoma	17.4	17.5	1%	9
Oral Cavity and Pharynx	13.9	15.3	10%	10
Ovary	10.4	10.8	4%	15
Pancreas	12.6	13.4	6%	12
Prostate	108.0	95.5	-12%	1
Stomach	5.4	5.7	6%	19
Thyroid	12.7	12.7	0%	13
Urinary Bladder, invasive and in situ	18.3	18.3	0%	8
Rural rate from OK2SHARE				

Stephenson Cancer Center, Rural, Oklahoma, and US cancer incidence rates, percent difference US and Oklahoma, and Oklahoma ranking 2018-2022				
Site	Oklahoma (All Races)	Urban (All Races)	Urban OK (All races) vs OK (all races)	OK Urban Ranking by incidence
Brain and Other Nervous System	6.3	6.1	-3%	18
Breast	67.0	69.3	3%	2
Cervix Uteri	10.1	9.4	-7%	15
Colon and Rectum	42.9	40.9	-5%	4
Corpus Uteri	25.7	25.3	-2%	5
Esophagus	5.1	5	-2%	20
Gallbladder	0.8	0.8	0%	22
Kidney and Renal Pelvis	22.0	20.7	-6%	7
Larynx	3.2	2.8	-13%	21
Leukemias	13.5	13.1	-3%	10
Liver	8.0	7.7	-4%	16
Lung and Bronchus	62.9	58.5	-7%	3
Melanoma of the Skin	21.0	21.2	1%	6
Myeloma	6.8	7.3	7%	17
Non-Hodgkin Lymphoma	17.4	17.3	-1%	9
Oral Cavity and Pharynx	13.9	13.1	-6%	10
Ovary	10.4	10.2	-2%	14
Pancreas	12.6	12.2	-3%	13
Prostate	108.0	115.1	7%	1
Stomach	5.4	5.3	-2%	19
Thyroid	12.7	12.7	0%	12
Urinary Bladder, invasive and in situ	18.3	18.3	0%	8
Urban rate from OK2SHARE				

CANCER MORTALITY IN OKLAHOMA

Race/Ethnicity population in Oklahoma rate vs US Rate (All Races)

Urban/Rural status in Oklahoma rate vs OK rate (All Races)

Age-adjusted mortality rates per 100,000

5-year Annual Average (2019-2023)

Stephenson Cancer Center, all races Oklahoma and US cancer mortality rates, percent difference US and Oklahoma, and Oklahoma ranking 2019-2023				
Site	US (All Races)	Oklahoma (All Races)	OK (All Races) vs US (All Races)	OK Ranking by incidence
Brain and Other Nervous System	4.4	4.9	11%	11
Breast	10.5	12.1	15%	4
Cervix Uteri	2.2	3.3	50%	15
Colon and Rectum	12.8	16.3	27%	3
Corpus Uteri	3.2	3.2	0%	16
Esophagus	3.7	4.3	16%	13
Gallbladder	0.5	0.4	-20%	22
Kidney and Renal Pelvis	3.4	4.8	41%	12
Larynx	0.9	1.1	22%	20
Leukemias	5.8	6.7	16%	6
Liver	4.6	6.2	35%	8
Lung and Bronchus	31.3	43.6	39%	1
Melanoma of the Skin	2	2.5	25%	18
Myeloma	2.9	3.5	21%	14
Non-Hodgkin Lymphoma	4.9	5.7	16%	9
Oral Cavity and Pharynx	2.6	3.1	19%	17
Ovary	5.9	6.4	8%	7
Pancreas	11.2	11.1	-1%	5
Prostate	18.9	20.4	8%	2
Stomach	2.7	2.5	-7%	18
Thyroid	0.5	0.6	20%	21
Urinary Bladder, invasive and in situ	4.1	5	22%	10
Source: CDC WONDER				

Stephenson Cancer Center, NH White, Oklahoma and US cancer mortality rates, percent difference US and Oklahoma, and Oklahoma ranking 2019-2023				
Site	US (NH White)	Oklahoma (NH White)	OK (NH White) vs US (NH White)	OK Ranking by incidence
Brain and Other Nervous System	5.1	5.5	8%	10
Breast	10.5	12.3	17%	4
Cervix Uteri	2.1	3.4	62%	14
Colon and Rectum	13	16.3	25%	3
Corpus Uteri	3	3	0%	17
Esophagus	4.3	4.6	7%	13
Gallbladder	0.4	0.3	-25%	22
Kidney and Renal Pelvis	3.6	4.8	33%	12
Larynx	0.9	1.1	22%	20
Leukemias	6.3	7.1	13%	6
Liver	4	5.9	48%	9
Lung and Bronchus	34.5	45.5	32%	1
Melanoma of the Skin	2.6	2.9	12%	18
Myeloma	2.7	3.3	22%	15
Non-Hodgkin Lymphoma	5.2	6	15%	8
Oral Cavity and Pharynx	2.9	3.2	10%	16
Ovary	6.2	6.6	6%	7
Pancreas	11.5	10.9	-5%	5
Prostate	18.1	19.7	9%	2
Stomach	2	2.2	10%	19
Thyroid	0.5	0.5	0%	21
Urinary Bladder, invasive and in situ	4.6	5.4	17%	11
Source: CDC WONDER				

Stephenson Cancer Center, NH Black, Oklahoma and US cancer mortality rates, percent difference US and Oklahoma, and Oklahoma ranking 2019-2023				
Site	US (NH Black)	Oklahoma (NH Black)	OK (NH Black) vs US (NH Black)	OK Ranking by incidence
Brain and Other Nervous System	2.8	3	7%	17
Breast	15.6	16.2	4%	4
Cervix Uteri	3.1	3.8	23%	15
Colon and Rectum	16.7	18.7	12%	3
Corpus Uteri	5.6	6.7	20%	7
Esophagus	2.7	2.8	4%	18
Gallbladder	0.8			
Kidney and Renal Pelvis	3.3	4.1	24%	14
Larynx	1.4			
Leukemias	5.1	5.1	0%	11
Liver	5.9	5.2	-12%	9
Lung and Bronchus	33.4	43.5	30%	1
Melanoma of the Skin	0.3			
Myeloma	5.7	7.4	30%	6
Non-Hodgkin Lymphoma	3.6	4.3	19%	13
Oral Cavity and Pharynx	2.5	3.2	28%	16
Ovary	5.4	5.6	4%	8
Pancreas	13.7	15.2	11%	5
Prostate	37	43	16%	2
Stomach	4.6	5	9%	12
Thyroid	0.5			
Urinary Bladder, invasive and in situ	3.3	5.2	58%	9

Source: CDC WONDER

Stephenson Cancer Center, NH American Indian/Alaska Native (AIAN), Oklahoma and US cancer mortality rates, percent difference US and Oklahoma, and Oklahoma ranking 2019-2023				
Site	US (NH AIAN)	Oklahoma (NH AIAN)	OK (NH AIAN) vs US (NH AIAN)	OK Ranking by incidence
Brain and Other Nervous System	2.2	3.9	77%	13
Breast	8	12.2	53%	4
Cervix Uteri	2.8	3.3	18%	15
Colon and Rectum	12.8	19.5	52%	2
Corpus Uteri	2.5	4	60%	12
Esophagus	3	4.4	47%	11
Gallbladder	0.6			
Kidney and Renal Pelvis	4.6	7.6	65%	7
Larynx	0.8	1.4	75%	19
Leukemias	3.5	5.6	60%	9
Liver	7.1	11.2	58%	6
Lung and Bronchus	26.3	48.3	84%	1
Melanoma of the Skin	0.7	1.3	86%	20
Myeloma	2.1	2.9	38%	17
Non-Hodgkin Lymphoma	3.2	5.2	63%	10
Oral Cavity and Pharynx	2	3.3	65%	15
Ovary	4.7	6.9	47%	8
Pancreas	8.4	11.6	38%	5
Prostate	12.9	16.8	30%	3
Stomach	3.7	2.9	-22%	17
Thyroid	0.4			
Urinary Bladder, invasive and in situ	2.1	3.9	86%	13

Source: CDC WONDER

Stephenson Cancer Center, NH Asian, Oklahoma and US cancer mortality rates, percent difference US and Oklahoma, and Oklahoma ranking 2019-2023				
Site	US (NH Asian)	Oklahoma (NH Asian)	OK (NH Asian) vs US (NH Asian)	OK Ranking by incidence
Brain and Other Nervous System	2.3			
Breast	6.3	6.5	3%	6
Cervix Uteri	1.5			
Colon and Rectum	9	12.3	37%	2
Corpus Uteri	2.1			
Esophagus	1.5			
Gallbladder	0.6			
Kidney and Renal Pelvis	1.6			
Larynx	0.3			
Leukemias	3.1			
Liver	5.5	8.2	49%	3
Lung and Bronchus	18.3	25.1	37%	1
Melanoma of the Skin	0.3			
Myeloma	1.4			
Non-Hodgkin Lymphoma	3.5	7	100%	5
Oral Cavity and Pharynx	2.1			
Ovary	4.3			
Pancreas	7.6	7.9	4%	4
Prostate	8.2			
Stomach	4.1			
Thyroid	0.6			
Urinary Bladder, invasive and in situ	1.7			
Source: CDC WONDER				

Stephenson Cancer Center, Hispanic, Oklahoma, and US cancer mortality rates, percent difference US and Oklahoma, and Oklahoma ranking 2019-2023				
Site	US (Hispanic)	Oklahoma (Hispanic)	OK (Hispanic) vs US (Hispanic)	OK Ranking by incidence
Brain and Other Nervous System	3.1	1.7	-45%	15
Breast	7.4	6.7	-9%	5
Cervix Uteri	2.3	2.5	9%	12
Colon and Rectum	10.6	9.7	-8%	3
Corpus Uteri	2.4			
Esophagus	1.9	2.4	26%	13
Gallbladder	0.8			
Kidney and Renal Pelvis	3.2	2.9	-9%	11
Larynx	0.5			
Leukemias	4.1	3.8	-7%	7
Liver	6.7	6.3	-6%	6
Lung and Bronchus	14.2	17.4	23%	1
Melanoma of the Skin	0.6			
Myeloma	2.4	2	-17%	14
Non-Hodgkin Lymphoma	4.3	3	-30%	10
Oral Cavity and Pharynx	1.5	1.4	-7%	16
Ovary	4.7	3.4	-28%	9
Pancreas	8.9	8.4	-6%	4
Prostate	15.2	12.1	-20%	2
Stomach	4.4	3.6	-18%	8
Thyroid	0.6			
Urinary Bladder, invasive and in situ	2.2			
Source: CDC WONDER				

Stephenson Cancer Center, Rural, Oklahoma, and US cancer mortality rates, percent difference US and Oklahoma, and Oklahoma ranking 2019-2023				
Site	Oklahoma (All Races)	Rural (All Races)	Rural OK (All races) vs OK (all races)	OK Rural Ranking by Incidence
Brain and Other Nervous System	4.9	5.2	6%	11
Breast	11.9	11.8	-1%	4
Cervix Uteri	3.3	3.8	15%	15
Colon and Rectum	16.1	18.2	13%	3
Corpus Uteri	5.0	5.1	2%	13
Esophagus	4.3	4.7	9%	14
Gallbladder				
Kidney and Renal Pelvis	4.7	5.4	15%	10
Larynx	1.1	1.2	9%	20
Leukemias	6.5	6.9	6%	6
Liver	6.2	6.9	11%	6
Lung and Bronchus	43.0	49.6	15%	1
Melanoma of the Skin	2.4	2.6	8%	18
Myeloma	3.4	3.0	-12%	17
Non-Hodgkin Lymphoma	5.6	5.9	5%	9
Oral Cavity and Pharynx	3.1	3.3	6%	16
Ovary	6.3	6.0	-5%	8
Pancreas	10.9	11.3	4%	5
Prostate	19.9	18.9	-5%	2
Stomach	2.5	2.4	-4%	19
Thyroid	0.5	0.6	20%	21
Urinary Bladder, invasive and in situ	4.9	5.2	6%	11
*Gallbladder not available Source: OK2SHARE				

Stephenson Cancer Center, Urban, Oklahoma, and US cancer mortality rates, percent difference US and Oklahoma, and Oklahoma ranking 2019-2023				
Site	Oklahoma (All Races)	Urban (All Races)	Urban OK (All races) vs OK (all races)	OK Urban Ranking by Incidence
Brain and Other Nervous System	4.9	4.7	-4%	12
Breast	11.9	12.0	1%	4
Cervix Uteri	3.3	3.0	-9%	16
Colon and Rectum	16.1	14.9	-7%	3
Corpus Uteri	5.0	4.9	-2%	10
Esophagus	4.3	4.0	-7%	14
Gallbladder				
Kidney and Renal Pelvis	4.7	4.2	-11%	13
Larynx	1.1	1.0	-9%	20
Leukemias	6.5	6.2	-5%	7
Liver	6.2	5.8	-6%	8
Lung and Bronchus	43.0	39.3	-9%	1
Melanoma of the Skin	2.4	2.3	-4%	19
Myeloma	3.4	3.7	9%	15
Non-Hodgkin Lymphoma	5.6	5.4	-4%	9
Oral Cavity and Pharynx	3.1	3.0	-3%	16
Ovary	6.3	6.6	5%	6
Pancreas	10.9	10.7	-2%	5
Prostate	19.9	20.4	3%	2
Stomach	2.5	2.5	0%	18
Thyroid	0.5	0.5	0%	21
Urinary Bladder, invasive and in situ	4.9	4.8	-2%	11

*Gallbladder not available
Source: OK2SHARE

Data Sources

Oklahoma State Department of Health (OSDH), Center for Health Statistics, Health Care Information, Vital Statistics, on Oklahoma Statistics on Health Available for Everyone (OK2SHARE). <https://www.health.state.ok.us/stats>

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United States Cancer Statistics, WONDER Online Database. United States Department of Health and Human Services, Centers for Disease Control and Prevention, and National Cancer Institute; 2024 submission; 2025 release. www.wonder.cdc.gov

Centers for Disease Control and Prevention, Behavior Risk Factor Surveillance System (BRFSS), 2020-2024.

Appendix

Stephenson Cancer Center priority cancer incidence and mortality rates and 95% confidence intervals for the US and Oklahoma, 2018-2022						
		All Races (US)		All Races (OK)		Significance Difference
		Rate	95% CI	Rate	95% CI	
Colorectal	Incidence	36.7	36.6-36.7	40.6	39.7-41.4	Higher
	Mortality	12.8	12.8-12.9	16.3	15.8-16.9	Higher
Pancreas	Incidence	13.7	13.7-13.8	12.6	12.1-13.1	Lower
	Mortality	11.2	11.2-11.3	11.1	10.7-11.5	No
Gynecological Cancer						
Ovarian	Incidence	10.0	10.0-10.1	10.4	9.8-11.0	No
	Mortality	5.9	5.8-5.9	6.4	6.0-6.9	Higher
Uterine	Incidence	27.9	27.8-28.0	25.7	24.8-26.7	Lower
	Mortality	5.3	5.3-5.4	5.1	4.7-5.5	No
Cervical	Incidence	7.5	7.4-7.6	10.1	9.5-10.8	Higher
	Mortality	2.2	2.1-2.2	3.3	2.9-3.7	Higher
Tobacco-Related Cancers						
Lung and Bronchus	Incidence	52.5	52.4-52.6	62.9	61.9-63.9	Higher
	Mortality	31.3	31.3-31.4	43.6	42.7-44.4	Higher
Oral Cavity and Pharynx	Incidence	12.1	12.1-12.2	13.9	13.5-14.4	Higher
	Mortality	2.6	2.6-2.7	3.1	2.9-3.3	Higher
Kidney	Incidence	17.5	17.5-17.6	22.0	21.4-22.6	Higher
	Mortality	3.4	3.4-3.5	4.8	4.5-5.0	Higher
Non-Priority Monitored Cancers						
Breast	Incidence	131.3	131.1-131.6	127.1	125.0-129.2	Lower
	Mortality	19.1	19.1-19.2	22.1	21.2-22.9	Higher
Liver	Incidence	8.6	8.6-8.7	9.3	9.0-9.7	Higher
	Mortality	6.6	6.6-6.6	7.7	7.3-8.0	Higher
Prostate	Incidence	116.4	116.2-116.6	108	106.1-109.9	Lower
	Mortality	18.9	18.8-19.0	20.4	19.5-21.3	Higher
Melanoma of the skin	Incidence	23.1	23.0-23.2	21.0	20.4-21.6	Lower
	Mortality	2.0	2.0-2.0	2.5	2.3-2.7	Higher
Source: CDC WONDER						

Stephenson Cancer Center priority cancer incidence and mortality rates and 95% confidence intervals by race for Oklahoma 2018-2022											
		NH White		NH Black		NH American Indian/Alaskan Native		NH Asian		Hispanic	
		Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI	Rate	95% CI
Colorectal	Incidence	38.7	37.7-39.6	41.4	38.0-45.0	66.5	62.5-70.8	34.2	28.6-40.6	34.2	28.6-40.6
	Mortality	16.3	15.7-17.0	18.7	16.4-21.3	19.5	17.2-21.9	12.3	8.8-16.7	9.7	7.9-11.9
Pancreas	Incidence	11.8	11.3-12.3	16.9	14.7-19.2	19.1	16.9-21.4	10.6	7.6-14.4	10.7	8.5-13.1
	Mortality	10.9	10.5-11.4	15.2	13.2-17.5	11.6	9.9-13.5	7.9	5.1-11.5	8.4	6.5-10.6
Gynecological Cancer											
Ovarian	Incidence	10.1	9.4-10.8	8.1	6.2-10.4	14.5	12.0-17.3	15.5	10.9-21.3	6.2	4.4-8.4
	Mortality	6.6	6.1-7.2	5.6	4.0-7.7	6.9	5.2-9.0	*		3.4	2.1-5.3
Uterine	Incidence	24.2	23.2-25.2	29.8	26.1-33.8	36.2	32.4-40.4	20.9	15.6-27.5	25	21.1-29.4
	Mortality	4.5	4.1-5.0	10.9	8.7-13.5	6.7	5.0-8.7	*		4.6	2.9-6.7
Cervical	Incidence	9.4	8.6-10.2	8.3	6.4-10.7	17.3	14.6-20.50	10.8	7.2-15.6	9.7	7.6-12.2
	Mortality	3.4	3.0-3.9	3.8	2.5-5.5	3.3	2.2-4.8	*		2.5	1.4-4.1
Tobacco-Related Cancers											
Lung and Bronchus	Incidence	62.3	61.2-63.4	63.8	59.5-68.3	94.8	90.0-99.8	36.4	30.2-43.4	32.9	29.0-37.1
	Mortality	45.5	44.5-46.4	43.5	39.9-47.4	48.3	44.7-52.1	25.1	19.7-31.4	17.4	14.7-20.5
Oral Cavity and Pharynx	Incidence	14.2	13.6-14.8	9.6	8.1-11.3	19.3	17.2-21.5	6.0	4.0-8.8	6.6	5.2-8.3
	Mortality	3.2	2.9-3.5	3.2	2.3-4.4	3.3	2.4-4.3	*		1.4	0.8-2.3
Kidney	Incidence	20.3	19.6-21.0	19.7	17.4-22.2	46.7	43.4-50.1	8.3	5.7-11.7	17.9	15.4-20.6
	Mortality	4.8	4.4-5.1	4.1	3.0-5.3	7.6	6.2-9.1	*		2.9	1.9-4.1
Non-Priority Monitored Cancers											
Breast	Incidence	126.5	124.1-129.0	138.1	129.7-146.8	150.2	142.0-158.6	97.1	85.1-110.3	92.1	84.4-100.3
	Mortality	22.4	21.5-23.4	28.9	25.0-33.2	22.2	18.9-25.8	11.4	7.6-16.6	13.2	10.2-16.7
Liver	Incidence	7.9	7.5-8.3	9.5	8.0-11.2	21.4	19.2-23.7	13.7	10.1-18.1	12.0	9.9-14.5
	Mortality	7.2	6.9-7.6	6.9	5.6-8.5	13.1	11.3-15.0	10.2	7.0-14.3	8.3	6.5-10.4
Prostate	Incidence	101.4	99.3-103.4	188.0	177.4-199.1	123.2	114.9-131.9	69.3	56.5-84.0	72.0	64.1-80.6
	Mortality	19.7	18.8-20.7	43.0	36.9-49.8	16.8	13.2-21.0	*		12.1	8.5-16.3
Melanoma of the skin	Incidence	22.6	21.9-23.4	*		19.3	17.2-21.7	*		8.4	6.6-10.5
	Mortality	2.9	2.7-3.2	*		1.3	0.8-2.1	*		*	
Red-Significantly higher than NH White											
Green-Significantly lower than NH White											
Source: CDC WONDER											

Stephenson Cancer Center priority cancer incidence and mortality rates and 95% confidence intervals by rural counties for Oklahoma 2018-2022							
		All Races		Rural		Urban	
		Rate	95% CI	Rate	95% CI		
Colorectal	Incidence	40.6	39.7-41.4	46.6	46.4-46.8	40.9	40.7-41.1
	Mortality	16.3	15.8-16.9	18.2	18.0-18.4	14.9	14.7-15.1
Pancreas	Incidence	12.6	12.1-13.1	13.4	13.2-13.6	12.2	12.0-12.4
	Mortality	11.1	10.7-11.5	11.3	11.1-11.5	10.8	10.6-11.0
Gynecological Cancers							
Ovarian	Incidence	10.4	9.8-11.0	10.8	10.5-11.1	10.2	10.0-10.4
	Mortality	6.4	6.0-6.9	6.0	5.7-6.3	6.5	6.3-6.7
Uterine	Incidence	25.7	24.8-26.7	26.7	23.7-29.7	25.3	25.1-25.5
	Mortality	5.1	4.7-5.5	5.1	4.8-5.4	5.0	4.8-5.2
Cervical	Incidence	10.1	9.5-10.8	11.6	11.2-12.0	9.4	9.2-9.6
	Mortality	3.3	2.9-3.7	3.8	3.5-4.1	3.0	2.8-3.2
Tobacco Related Cancers							
Lung and Bronchus	Incidence	62.9	61.9-63.9	70.8	70.6-71.0	58.5	58.3-58.7
	Mortality	43.6	42.7-44.4	49.6	49.4-49.8	39.3	39.1-39.5
Oral Cavity and Pharynx	Incidence	13.9	13.5-14.4	15.3	15.1-15.5	13.1	12.9-13.3
	Mortality	3.1	2.9-3.3	3.3	3.1-3.5	3.0	2.8-3.2
Kidney	Incidence	22	21.4-22.6	24.8	24.6-25.0	20.7	20.5-20.9
	Mortality	4.8	4.5-5.0	5.4	5.2-5.6	4.2	4.0-4.4
Non-Priority Monitored Cancers							
Breast	Incidence	127.1	125.0-129.2	121.3	121.0-121.6	130.4	130.2-130.6
	Mortality	22.1	21.2-22.9	11.8	11.6-12.0	21.7	21.5-21.9
Liver	Incidence	9.3	9.0-9.7	8.6	8.4-8.8	9.1	8.9-9.3
	Mortality	7.7	7.3-8.0	6.9	6.7-7.1	5.8	5.6-6.0
Prostate	Incidence	108	106.1-109.9	95.5	95.2-95.8	115.1	114.9-115.3
	Mortality	20.4	19.5-21.3	18.9	18.6-19.2	20.4	20.2-20.6
Melanoma of the skin	Incidence	21.0	20.4-21.6	17.0	16.7-17.3	21.2	21.0-21.4
	Mortality	2.5	2.3-2.7	2.6	2.4-2.8	2.3	2.1-2.5
Red-Significantly higher than overall rates							
Green-Significantly lower than overall rates							
Source: CDC WONDER							

Historical Trends

Stephenson Cancer Center priority cancer (1999-2022) and mortality (1999-2023) rates, and historical trends for Oklahoma				
	Incidence (OK)		Mortality (OK)	
Colon and Rectum	-1.45*	↓	-1.08*	↓
Pancreas	0.83*	↑	-1.89*	↓
Tobacco Related				
Oral Cavity	0.81*	↑	-1.20*	↓
Kidney	2.53*	↑	-0.40	↑
Lung and Bronchus	-1.55*	↓	-1.89*	↓
Gynecological Cancers				
Cervix	-0.16	↔	0.49	↔
Uterine	1.47*	↑	1.49*	↑
Ovary	-1.44*	↓	-1.20*	↓
Non-Priority Monitored				
Female Breast	-0.13	↔	-0.76*	↓
Prostate	-2.28*	↓	-1.48*	↓
Liver	3.74*	↑	3.23*	↑
Melanoma of the skin	2.24*	↑	-1.86*	↓
*Significant				
Source: CDC WONDER				

Stephenson Cancer Center priority cancer (1999-2022) and mortality (1999-2023) rates, historical trends for Oklahoma, 1999-2023						
	Incidence (US)	Incidence (OK)	Percent Difference US vs OK	Mortality (US)	Mortality (OK)	Percent Difference US vs OK
Colon and Rectum	-2.16	-1.45	-33%	-2.31	-1.08	-53%
Pancreas	1.09	0.83	-24%	-2.55	-1.89	-26%
Tobacco Related						
Oral Cavity	0.65	0.81	25%	-2.1	-1.2	-43%
Kidney	1.31	2.53	93%	-0.98	-0.4	-59%
Lung and Bronchus	-1.63	-1.55	-5%	-2.55	-1.89	-26%
Gynecological						
Cervix	-1	-0.16	-84%	-0.95	0.49	-152%
Uterine	0.93	1.47	58%	1.37	1.49	9%
Ovary	-1.65	-1.44	-13%	-2.1	-1.2	-43%
Non-Priority Monitored						
Female Breast	0.1	-0.13	-230%	-1.55	-0.76	-51%
Prostate	-2.17	-2.28	5%	-2.09	-1.48	-29%
Liver	2.87	3.74	30%	1.78	3.23	81%
Melanoma of the skin	1.69	2.24	33%	-1.48	-1.86	26%
Source: CDC WONDER						