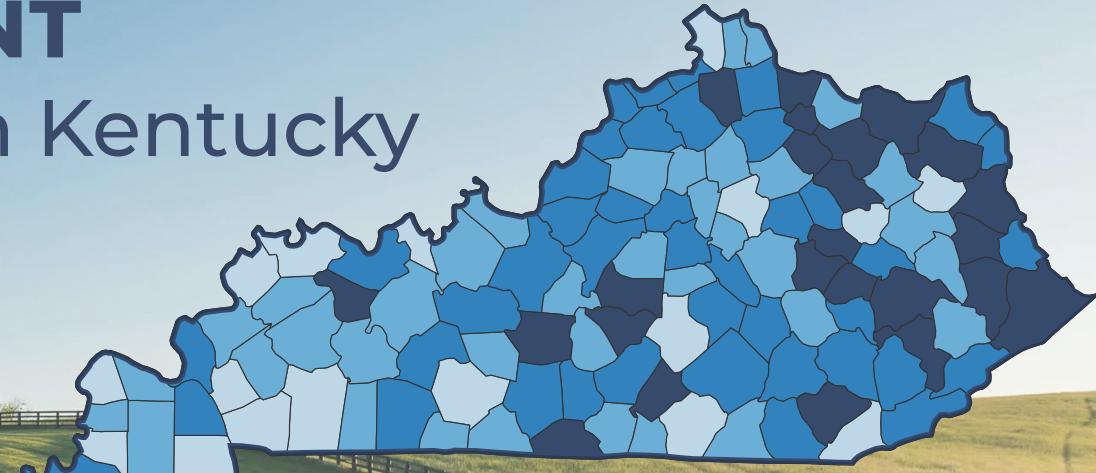


2021 KENTUCKY CANCER NEEDS ASSESSMENT

The Story of Cancer in Kentucky

APPENDIX I



Data Definitions

Exercise Opportunity

Individuals are considered to have access to exercise opportunities if (a) they reside in a census block that is within a half mile of a park, or (b) they reside in an urban census block that is within one mile of a recreational facility, or (c) they reside in a rural census block that is within three miles of a recreational facility.

Food Desert

A low-income and low access using vehicle census tract. A low-income census tract is one where (a) the poverty rate is 20 percent or greater; or (b) the median family income is less than or equal to 80 percent of the State-wide median family income; or (c) the tract is in a metropolitan area and has a median family income less than or equal to 80 percent of the metropolitan area's median family income. A census tract is considered low access if (a) at least 100 households are more than one-half mile from the nearest supermarket and have no access to a vehicle; or (b) at least 500 people or 33 percent of the population live more than 20 miles from the nearest supermarket, regardless of vehicle access.

Persistent Poverty

A county is defined as being in persistent poverty if 20 percent or more of their populations were living in poverty based on the 1980, 1990, and 2000 decennial censuses and 2007-11 ACS 5-year estimates

For more information about data sources, abbreviations and acronyms used,
see pp.11, 55-56 of the 2021 Kentucky Cancer Needs Assessment

Table 1: Basic Demographics

Population Overview

	KY	Urban KY	Rural KY	Non-Appl KY	Appl KY	US
Total Population	4,449,052	2,619,409	1,829,643	3,283,330	1,165,722	324,697,795
Median Household Income	50,589	58,768	41,545	56,375	38,476	62,843

Demographic Breakdown

	KY	Urban KY	Rural KY	Non-Appl KY	Appl KY	US
White NH	85%	79%	92%	81%	95%	61%
Black NH	8%	11%	3%	10%	2%	12%
Asian NH	1.5%	2.1%	0.5%	1.8%	0.4%	5.5%
Other NH	0.4%	0.4%	0.3%	0.4%	0.3%	1.1%
2+ Races NH	2.0%	2.3%	1.5%	2.3%	1.2%	2.4%
Hispanic	4%	5%	2%	4%	2%	18%
Female	51%	51%	51%	51%	51%	51%
Under 18	23%	23%	22%	23%	22%	23%
Age 65+	16%	15%	17%	15%	17%	16%
Foreign Born	4%	6%	1%	5%	1%	14%
Rural	41%					14%
Below Poverty	17.33	14.17	21.90	14.80	24.50	13.42
Bachelors Degree or More	24.22	29.90	16.25	27.49	15.20	32.15
Medicaid	30.20	25.13	37.47	25.98	42.10	20.24
Uninsured	5.70	5.41	6.11	5.58	6.02	8.84

Table 2: Cancer Incidence

	Kentucky	Rural KY	Appl KY	Black KY	US
All Sites	513.8 (511.0, 516.6)	523.9 (519.7, 528.2)	534.3 (528.9, 539.8)	481.8 (471.1, 492.7)	438.3 (437.7, 438.9)
Brain and ONS	7.4 (7.0, 7.7)	7.5 (7.0, 8.1)	7.4 (6.8, 8.1)	4.3 (3.4, 5.4)	6.2 (6.1, 6.3)
Cervix Uteri	9.8 (9.2, 10.4)	10.9 (9.9, 11.9)	12.6 (11.3, 14.0)	8.6 (6.7, 10.7)	7.4 (7.3, 7.6)
Colon and Rectum	47.7 (46.8, 48.6)	51.7 (50.4, 53.1)	54.3 (52.6, 56.1)	49.2 (45.8, 52.8)	37.5 (37.3, 37.6)
Corpus Uteri	27.0 (26.1, 27.9)	29.1 (27.7, 30.6)	32.2 (30.4, 34.2)	24.9 (21.8, 28.4)	26.3 (26.1, 26.5)
Esophagus	5.1 (4.9, 5.4)	5.1 (4.7, 5.5)	4.9 (4.4, 5.4)	4.0 (3.1, 5.1)	4.0 (4.0, 4.1)
Female Breast	127.3 (125.4, 129.3)	118.5 (115.6, 121.4)	117.9 (114.4, 121.5)	128.0 (120.7, 135.6)	127.4 (127.0, 127.9)
Hodgkin Lymphoma	2.6 (2.4, 2.8)	2.8 (2.4, 3.1)	2.8 (2.4, 3.3)	3.0 (2.3, 4.0)	2.5 (2.4, 2.5)
Kidney and Renal Pelvis	20.9 (20.4, 21.5)	21.2 (20.3, 22.1)	21.5 (20.4, 22.6)	23.1 (20.8, 25.5)	16.1 (16.0, 16.2)
Larynx	5.1 (4.9, 5.4)	5.6 (5.2, 6.1)	6.4 (5.8, 7.0)	5.2 (4.1, 6.4)	2.6 (2.5, 2.6)
Leukemia	15.8 (15.3, 16.3)	16.1 (15.3, 16.9)	15.9 (15.0, 16.9)	13.1 (11.4, 15.0)	13.8 (13.7, 13.9)
Liver and IBD	8.5 (8.1, 8.8)	8.3 (7.7, 8.8)	8.5 (7.9, 9.2)	10.6 (9.1, 12.2)	9.1 (9.1, 9.2)
Lung and Bronchus	88.1 (87.0, 89.3)	97.8 (96.0, 99.6)	104.3 (102.0, 106.6)	82.3 (77.7, 87.0)	49.3 (49.1, 49.5)
Melanoma of the Skin	27.9 (27.3, 28.6)	28.1 (27.1, 29.2)	26.2 (25.0, 27.5)	1.4 (0.8, 2.1)	23.6 (23.5, 23.8)
Myeloma	7.0 (6.7, 7.3)	6.4 (6.0, 6.9)	6.6 (6.0, 7.2)	13.1 (11.4, 15.1)	6.8 (6.8, 6.9)
NH Lymphoma	19.6 (19.0, 20.1)	19.5 (18.7, 20.4)	19.7 (18.7, 20.8)	14.7 (12.9, 16.7)	19.1 (19.0, 19.2)
Oral Cavity and Pharynx	13.9 (13.4, 14.3)	14.2 (13.5, 14.9)	14.1 (13.2, 15.0)	8.3 (7.0, 9.7)	11.4 (11.3, 11.4)
Ovary	9.5 (8.9, 10.0)	9.4 (8.6, 10.2)	9.5 (8.5, 10.6)	7.0 (5.4, 9.0)	10.9 (10.7, 11.0)
Pancreas	13.6 (13.1, 14.0)	13.2 (12.5, 13.8)	13.1 (12.2, 13.9)	16.1 (14.2, 18.2)	12.9 (12.8, 13.0)
Prostate	103.6 (101.8, 105.4)	95.3 (92.8, 97.9)	90.9 (87.8, 94.1)	157.3 (148.1, 167.0)	108.3 (107.9, 108.8)
Small Intestine	3.2 (2.9, 3.4)	3.0 (2.7, 3.4)	3.2 (2.7, 3.6)	4.8 (3.8, 5.9)	2.3 (2.3, 2.4)
Stomach	6.6 (6.3, 6.9)	6.8 (6.3, 7.3)	7.0 (6.4, 7.6)	8.9 (7.5, 10.6)	7.0 (7.0, 7.1)
Testis	5.5 (5.1, 6.0)	5.6 (4.9, 6.3)	5.2 (4.4, 6.2)	1.5 (0.8, 2.6)	5.9 (5.8, 6.1)
Thyroid	15.5 (15.0, 16.0)	16.8 (16.0, 17.7)	18.9 (17.7, 20.0)	11.6 (10.1, 13.4)	14.3 (14.2, 14.4)
Urinary Bladder	22.2 (21.6, 22.8)	22.8 (22.0, 23.7)	22.6 (21.5, 23.7)	11.0 (9.3, 12.8)	18.6 (18.4, 18.7)
Vulva (females only)	4.4 (4.0, 4.7)	4.7 (4.1, 5.3)	5.2 (4.4, 6.0)	2.1 (1.2, 3.3)	2.5 (2.4, 2.5)

Table 3: Cancer Mortality

	Kentucky	Rural KY	Appl KY	Black KY	US
All Sites	189.3 (187.6, 191.0)	205.8 (203.1, 208.4)	213.5 (210.1, 216.9)	186.7 (179.7, 193.7)	147.5 (147.2, 147.9)
Bones and Joints	0.6 (0.5, 0.7)	0.7 (0.5, 0.9)	0.7 (0.5, 0.9)	0.5 (0.1, 1.2)	0.5 (0.5, 0.5)
Brain and ONS	4.8 (4.6, 5.1)	4.8 (4.4, 5.3)	5.1 (4.6, 5.7)	2.9 (2.1, 3.9)	4.4 (4.3, 4.4)
Cervix Uteri	2.6 (2.3, 2.9)	3.3 (2.8, 3.9)	3.5 (2.9, 4.2)	1.9 (1.2, 3.1)	2.1 (2.1, 2.2)
Colon and Rectum	16.4 (15.9, 16.9)	18.4 (17.6, 19.2)	19.1 (18.1, 20.2)	19.5 (17.3, 21.8)	13.1 (13.0, 13.2)
Corpus Uteri	2.2 (2.0, 2.5)	1.8 (1.5, 2.2)	2.1 (1.7, 2.7)	4.1 (2.9, 5.6)	2.4 (2.3, 2.4)
Esophagus	4.4 (4.2, 4.7)	4.6 (4.2, 5.0)	4.4 (3.9, 4.9)	3.2 (2.4, 4.2)	3.5 (3.4, 3.5)
Female Breast	20.8 (20.0, 21.6)	21.3 (20.1, 22.5)	22.8 (21.3, 24.4)	25.6 (22.4, 29.2)	19.9 (19.8, 20.1)
Gallbladder	0.4 (0.4, 0.5)	0.5 (0.3, 0.6)	0.4 (0.2, 0.5)	0.7 (0.3, 1.2)	0.6 (0.6, 0.6)
Kidney and Renal Pelvis	4.5 (4.3, 4.8)	4.8 (4.4, 5.2)	4.7 (4.3, 5.3)	4.2 (3.3, 5.4)	3.4 (3.4, 3.5)
Larynx	1.5 (1.3, 1.6)	1.8 (1.6, 2.1)	1.9 (1.6, 2.2)	2.2 (1.5, 3.0)	0.8 (0.8, 0.8)
Leukemia	6.9 (6.6, 7.3)	7.2 (6.7, 7.7)	7.2 (6.6, 7.9)	5.4 (4.3, 6.7)	6.0 (5.9, 6.0)
Liver and IBD	6.8 (6.4, 7.1)	6.7 (6.2, 7.2)	6.8 (6.2, 7.5)	8.5 (7.1, 10.0)	7.1 (7.0, 7.1)
Lung and Bronchus	59.9 (58.9, 60.8)	69.0 (67.5, 70.6)	73.2 (71.3, 75.2)	52.6 (49.0, 56.5)	32.9 (32.8, 33.1)
Melanoma of the Skin	2.9 (2.6, 3.1)	3.2 (2.9, 3.6)	3.2 (2.8, 3.7)		2.1 (2.1, 2.1)
Myeloma	3.4 (3.2, 3.6)	3.5 (3.2, 3.9)	3.5 (3.1, 4.0)	5.2 (4.1, 6.5)	3.1 (3.1, 3.2)
NH Lymphoma	6.0 (5.7, 6.3)	6.1 (5.7, 6.6)	5.8 (5.3, 6.4)	4.0 (3.1, 5.2)	5.3 (5.2, 5.4)
Oral Cavity and Pharynx	3.1 (2.9, 3.3)	3.4 (3.0, 3.7)	3.4 (3.0, 3.8)	2.2 (1.5, 3.0)	2.4 (2.4, 2.5)
Ovary	6.3 (5.9, 6.8)	6.3 (5.7, 7.0)	6.6 (5.8, 7.5)	4.7 (3.4, 6.4)	6.8 (6.7, 6.9)
Pancreas	11.5 (11.1, 11.9)	11.1 (10.5, 11.8)	11.1 (10.3, 11.8)	13.1 (11.3, 15.0)	10.8 (10.7, 10.9)
Prostate	19.1 (18.3, 20.0)	19.4 (18.1, 20.8)	19.0 (17.4, 20.7)	34.0 (28.8, 39.7)	19.6 (19.4, 19.8)
Stomach	2.7 (2.5, 2.9)	2.8 (2.5, 3.1)	3.1 (2.7, 3.6)	3.8 (2.9, 4.9)	3.5 (3.4, 3.5)
Thyroid	0.5 (0.4, 0.6)	0.5 (0.3, 0.6)	0.5 (0.3, 0.7)	0.4 (0.2, 0.9)	0.6 (0.5, 0.6)
Urinary Bladder	4.9 (4.6, 5.2)	5.0 (4.6, 5.4)	4.7 (4.2, 5.2)	3.3 (2.4, 4.4)	4.1 (4.0, 4.1)
Uterus, NOS (females only)	2.0 (1.7, 2.2)	1.9 (1.6, 2.3)	1.9 (1.5, 2.4)	3.7 (2.5, 5.2)	2.6 (2.6, 2.7)
Vulva (females only)	0.7 (0.6, 0.9)	0.8 (0.6, 1.0)	1.0 (0.7, 1.4)		0.5 (0.5, 0.5)

Table 4: Cancer Risk Factors

Screening Rates

	KY	Rural KY	Appl KY	Black KY	Hisp KY	Rest of US
Had Pap Test in Last 3 Years	80.2%	76.6%	74.1%	91.4%	68.5%	80.0%
Met USPSTF Breast Recs	77.1%	74.0%	72.0%	82.4%	65.2%	78.6%
Met USPSTF Colorectal Recs	69.9%	67.6%	66.2%	71.6%	70.2%	68.4%
Met USPSTF Lung Recs	15.9%	14.4%	14.2%	7.9%	8.8%	13.3%

Behavioral Risk Factors

	KY	Rural KY	Appl KY	Black KY	Hisp KY	Rest of US
Currently Smokes	23.5%	25.2%	26.3%	24.2%	21.5%	15.3%
Ever Smoked	26.6%			22.1%	25.4%	20.8%
Currently Uses Smokeless Tobacco	6.8%	9.2%	10.1%	1.9%	6.4%	3.5%
Had at least 1 Drink, Last 30 Days	41.6%	30.3%	26.0%	46.4%	49.2%	52.9%
Unhealthy Drinking Habits	16.4%	11.9%	11.0%	15.3%	21.6%	18.1%
Overweight (BMI 25+)	70.1%	71.9%	72.7%	73.0%	60.6%	66.2%
Obese (BMI 30+)	36.5%	39.8%	40.9%	41.8%	32.9%	31.1%
Avg. <1 Vegetable/Day	19.7%	20.4%	20.7%	19.2%	22.8%	21.3%
Avg. <1 Fruit/Day	45.8%	46.8%	47.3%	42.5%	43.6%	39.2%
Physically Inactive	49.4%	56.7%	58.0%	58.0%	57.1%	29.5%
Not Met CDC Physical Activity Guidelines	84.7%	88.0%	89.3%	79.5%	77.8%	77.1%
Sleeps Less than 6 Hours/Night	15.5%	17.4%	18.6%	27.5%	15.0%	12.2%

Table 5: Youth Risk Factors

	KY	Black KY	Hisp KY	Rest of US
Currently Smokes (youth)	24.0%	13.8%	20.7%	17.0%
Currently Vapes (youth)	21.1%	15.3%	21.7%	19.8%
Ever Vaped (youth)	46.7%	41.4%	48.3%	44.8%
Overweight Youth (BMI 25+)	32.0%	37.1%	32.5%	27.1%
Obese Youth (BMI 30+)	12.9%	15.1%	12.4%	9.6%
Avg. <1 Vegetable/Day (youth)	44.5%	50.7%	46.1%	41.4%
Avg. <1 Fruit/Day (youth)	50.2%	46.5%	46.0%	42.0%
Physically Inactive (youth)	62.0%	67.8%	66.5%	55.2%

Table 6: Kentucky Counties

County	ADD	Rural	Appl	PP	Population	County	ADD	Rural	Appl	PP	Population
Adair	Lake Cumberland	Yes	Yes	No	19,222	Edmonson	Barren River	No	Yes	No	12,138
Allen	Barren River	No	No	No	20,944	Elliott	FIVCO	Yes	Yes	Yes	7,510
Anderson	Bluegrass	Yes	No	No	22,409	Estill	Bluegrass	Yes	Yes	Yes	14,224
Ballard	Purchase	Yes	No	No	8,032	Fayette	Bluegrass	No	No	No	320,601
Barren	Barren River	Yes	No	No	43,884	Fleming	Buffalo Trace	Yes	Yes	No	14,513
Bath	Gateway	Yes	Yes	Yes	12,355	Floyd	Big Sandy	Yes	Yes	Yes	36,456
Bell	Cumberland Valley	Yes	Yes	Yes	26,791	Franklin	Bluegrass	Yes	No	No	50,529
Boone	Northern Kentucky	No	No	No	130,820	Fulton	Purchase	Yes	No	Yes	6,130
Bourbon	Bluegrass	No	No	No	20,058	Gallatin	Northern Kentucky	No	No	No	8,737
Boyd	FIVCO	No	Yes	No	47,682	Garrard	Bluegrass	Yes	Yes	No	17,445
Boyle	Bluegrass	Yes	No	No	29,972	Grant	Northern Kentucky	No	No	No	24,951
Bracken	Buffalo Trace	No	No	No	8,305	Graves	Purchase	Yes	No	No	37,248
Breathitt	Kentucky River	Yes	Yes	Yes	12,977	Grayson	Lincoln Trail	Yes	No	No	26,247
Breckinridge	Lincoln Trail	Yes	No	No	20,176	Green	Lake Cumberland	Yes	Yes	No	10,979
Bullitt	KIPDA	No	No	No	80,171	Greenup	FIVCO	No	Yes	No	35,555
Butler	Barren River	No	No	No	12,764	Hancock	Green River	No	No	No	8,720
Caldwell	Pennyroyal	Yes	No	No	12,702	Hardin	Lincoln Trail	No	No	No	108,527
Calloway	Purchase	Yes	No	No	38,837	Harlan	Cumberland Valley	Yes	Yes	Yes	26,699
Campbell	Northern Kentucky	No	No	No	92,861	Harrison	Bluegrass	Yes	No	No	18,722
Carlisle	Purchase	Yes	No	No	4,784	Hart	Barren River	Yes	Yes	Yes	18,729
Carroll	Northern Kentucky	Yes	No	No	10,671	Henderson	Green River	No	No	No	45,829
Carter	FIVCO	Yes	Yes	No	27,159	Henry	KIPDA	No	No	No	15,911
Casey	Lake Cumberland	Yes	Yes	Yes	15,885	Hickman	Purchase	Yes	No	No	4,510
Christian	Pennyroyal	No	No	No	71,414	Hopkins	Pennyroyal	Yes	No	No	45,331
Clark	Bluegrass	No	Yes	No	35,971	Jackson	Cumberland Valley	Yes	Yes	Yes	13,369
Clay	Cumberland Valley	Yes	Yes	Yes	20,368	Jefferson	KIPDA	No	No	No	767,419
Clinton	Lake Cumberland	Yes	Yes	Yes	10,193	Jessamine	Bluegrass	No	No	No	53,032
Crittenden	Pennyroyal	Yes	No	No	9,000	Johnson	Big Sandy	Yes	Yes	Yes	22,634
Cumberland	Lake Cumberland	Yes	Yes	Yes	6,697	Kenton	Northern Kentucky	No	No	No	165,668
Daviess	Green River	No	No	No	100,474	Knott	Kentucky River	Yes	Yes	Yes	15,260

ADD = Area Development District · Appl = Appalachian · PP = Persistent Poverty

Table 6: Kentucky Counties (con't)

County	ADD	Rural	Appl	PP	Population	County	ADD	Rural	Appl	PP	Population
Knox	Cumberland Valley	Yes	Yes	Yes	31,365	Nicholas	Bluegrass	Yes	Yes	No	7,153
Larue	Lincoln Trail	No	No	No	14,204	Ohio	Green River	Yes	No	No	24,071
Laurel	Cumberland Valley	Yes	Yes	Yes	60,357	Oldham	KIPDA	No	No	No	65,967
Lawrence	FIVCO	Yes	Yes	Yes	15,671	Owen	Northern Kentucky	Yes	No	No	10,796
Lee	Kentucky River	Yes	Yes	Yes	6,881	Owsley	Kentucky River	Yes	Yes	Yes	4,442
Leslie	Kentucky River	Yes	Yes	Yes	10,283	Pendleton	Northern Kentucky	No	No	No	14,572
Letcher	Kentucky River	Yes	Yes	Yes	22,295	Perry	Kentucky River	Yes	Yes	Yes	26,624
Lewis	Buffalo Trace	Yes	Yes	Yes	13,417	Pike	Big Sandy	Yes	Yes	No	59,497
Lincoln	Bluegrass	Yes	Yes	Yes	24,476	Powell	Bluegrass	Yes	Yes	Yes	12,304
Livingston	Pennyrlie	Yes	No	No	9,235	Pulaski	Lake Cumberland	Yes	Yes	No	64,350
Logan	Barren River	Yes	No	No	26,902	Robertson	Buffalo Trace	Yes	Yes	Yes	2,123
Lyon	Pennyrlie	Yes	No	No	8,271	Rockcastle	Cumberland Valley	Yes	Yes	Yes	16,820
Madison	Bluegrass	Yes	Yes	No	90,802	Rowan	Gateway	Yes	Yes	Yes	24,507
Magoffin	Big Sandy	Yes	Yes	Yes	12,491	Russell	Lake Cumberland	Yes	Yes	Yes	17,778
Marion	Lincoln Trail	Yes	No	No	19,244	Scott	Bluegrass	No	No	No	54,667
Marshall	Purchase	Yes	No	No	31,192	Shelby	KIPDA	No	No	No	47,325
Martin	Big Sandy	Yes	Yes	Yes	11,648	Simpson	Barren River	Yes	No	No	18,183
Mason	Buffalo Trace	Yes	No	No	17,112	Spencer	KIPDA	No	No	No	18,680
McCracken	Purchase	Yes	No	No	65,268	Taylor	Lake Cumberland	Yes	No	No	25,571
McCreary	Lake Cumberland	Yes	Yes	Yes	17,465	Todd	Pennyrlie	Yes	No	No	12,316
McLean	Green River	No	No	No	9,283	Trigg	Pennyrlie	No	No	No	14,449
Meade	Lincoln Trail	No	No	No	28,182	Trimble	KIPDA	No	No	No	8,558
Menifee	Gateway	Yes	Yes	Yes	6,443	Union	Green River	Yes	No	No	14,638
Mercer	Bluegrass	Yes	No	No	21,592	Warren	Barren River	No	No	No	128,652
Metcalfe	Barren River	Yes	Yes	No	10,036	Washington	Lincoln Trail	Yes	No	No	12,023
Monroe	Barren River	Yes	Yes	Yes	10,627	Wayne	Lake Cumberland	Yes	Yes	Yes	20,546
Montgomery	Gateway	Yes	Yes	No	27,884	Webster	Green River	Yes	No	No	13,068
Morgan	Gateway	Yes	Yes	Yes	13,288	Whitley	Cumberland Valley	Yes	Yes	Yes	36,131
Muhlenberg	Pennyrlie	Yes	No	No	30,951	Wolfe	Kentucky River	Yes	Yes	Yes	7,207
Nelson	Lincoln Trail	Yes	No	No	45,650	Woodford	Bluegrass	No	No	No	26,318

ADD = Area Development District · Appl = Appalachian · PP = Persistent Poverty

Table 7: Barren River ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Allen	\$44,036	1%	2%	32%	37%
Barren	\$41,459	4%	3%	33%	66%
Butler	\$41,763	1%	3%	35%	20%
Edmonson	\$43,401	1%	1%	35%	43%
Hart	\$38,396	4%	2%	37%	40%
Logan	\$48,014	7%	3%	29%	41%
Metcalfe	\$37,386	2%	1%	42%	55%
Monroe	\$34,879	2%	3%	42%	46%
Simpson	\$48,623	10%	2%	30%	78%
Warren	\$52,270	9%	5%	29%	55%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Allen	234.5	202.7	18.3	55.8	23.0	15.5	59.9	84.9%	61.5%
Barren	265.0	186.5	13.0	52.7	12.0	19.4	70.9	75.7%	59.3%
Butler	277.4	202.6	16.3	59.9	-	21.8	58.8	73.6%	60.6%
Edmonson	251.8	172.7	10.6	39.9	-	20.0	69.7	78.3%	61.9%
Hart	282.2	199.2	14.5	51.2	15.4	21.2	74.0	75.2%	51.9%
Logan	263.0	194.3	18.8	53.4	20.7	33.6	61.7	75.4%	58.7%
Metcalfe	268.2	172.4	21.5	48.3	-	31.1	56.2	72.7%	57.4%
Monroe	297.4	230.5	16.8	60.4	36.7	22.1	71.8	76.1%	65.2%
Simpson	241.9	192.6	14.6	47.5	-	17.2	64.7	79.8%	55.6%
Warren	220.1	179.3	15.0	44.0	6.8	20.2	51.5	76.6%	63.9%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 8: Big Sandy & FIVCO ADDs Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Boyd	\$48,308	2%	2%	34%	74%
Carter	\$34,736	1%	1%	39%	50%
Elliott	\$32,306	4%	0%	39%	42%
Floyd	\$32,730	1%	1%	52%	48%
Greenup	\$51,655	1%	1%	30%	74%
Johnson	\$37,055	0%	0%	44%	72%
Lawrence	\$32,798	0%	1%	46%	50%
Magoffin	\$28,147	0%	1%	53%	6%
Martin	\$41,013	5%	2%	46%	49%
Pike	\$34,856	1%	1%	42%	45%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Boyd	270.8	202.5	21.3	54.6	17.7	24.4	58.1	74.8%	62.8%
Carter	275.8	210.9	19.1	54.0	14.4	27.9	59.5	77.8%	62.3%
Elliott	197.4	128.3	-	51.4	-	-	51.0	75.0%	54.0%
Floyd	318.3	230.7	23.2	68.4	20.1	29.7	79.9	77.6%	56.0%
Greenup	261.4	199.1	21.4	52.2	15.5	14.8	63.8	81.3%	56.6%
Johnson	282.9	192.6	25.6	51.7	14.2	25.6	77.7	71.8%	57.3%
Lawrence	298.6	230.2	20.2	65.0	21.3	18.2	77.8	74.0%	59.5%
Magoffin	256.1	189.1	22.1	52.1	-	14.3	74.6	79.0%	56.5%
Martin	282.7	192.7	14.6	64.7	-	35.6	79.9	79.3%	52.1%
Pike	293.4	211.5	16.2	57.8	10.2	18.5	74.2	73.9%	54.8%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 9a: Bluegrass ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Anderson	\$55,334	3%	2%	23%	76%
Bourbon	\$49,637	7%	7%	32%	72%
Boyle	\$46,382	8%	3%	28%	71%
Clark	\$54,953	5%	3%	31%	79%
Estill	\$31,688	0%	0%	44%	63%
Fayette	\$57,291	15%	7%	22%	99%
Franklin	\$56,274	9%	3%	27%	81%
Garrard	\$52,631	2%	2%	31%	62%
Harrison	\$48,438	2%	2%	30%	37%
Jessamine	\$58,245	5%	3%	28%	79%
Lincoln	\$42,919	2%	2%	38%	38%
Madison	\$50,060	4%	2%	27%	66%
Mercer	\$55,093	4%	3%	28%	62%
Nicholas	\$38,149	2%	1%	37%	14%
Powell	\$37,469	0%	2%	49%	86%
Scott	\$70,817	5%	4%	21%	82%
Woodford	\$63,820	5%	7%	20%	77%

Table 9b: Bluegrass ADD Data

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Anderson	249.4	207.9	15.6	56.3	-	20.6	60.3	78.0%	61.9%
Bourbon	246.2	191.7	14.6	47.8	-	17.3	68.4	78.1%	62.6%
Boyle	215.0	209.1	15.2	58.5	12.2	16.3	45.5	73.3%	65.5%
Clark	249.6	220.4	18.3	45.5	15.6	25.2	63.2	78.6%	59.4%
Estill	306.9	232.9	24.5	69.8	24.6	28.7	77.8	67.0%	58.0%
Fayette	193.4	184.5	14.6	38.4	6.7	21.6	43.5	75.8%	69.2%
Franklin	233.0	180.2	13.5	40.6	5.2	20.0	57.9	75.2%	63.2%
Garrard	245.7	196.2	18.0	57.2	21.9	33.8	64.1	81.4%	64.4%
Harrison	271.9	203.0	13.4	52.7	-	18.1	76.0	77.0%	61.3%
Jessamine	219.6	179.7	14.1	39.9	8.9	16.0	64.7	82.0%	65.4%
Lincoln	261.8	207.8	11.0	54.6	11.7	23.7	80.5	76.8%	60.6%
Madison	227.1	178.8	17.8	44.9	11.3	21.8	58.0	78.9%	65.5%
Mercer	275.9	210.9	17.5	59.2	15.1	15.8	66.2	83.2%	63.6%
Nicholas	264.6	237.2	23.1	45.6	-	28.2	84.7	89.4%	53.4%
Powell	342.0	256.9	24.4	84.8	18.5	36.0	90.7	77.3%	61.8%
Scott	197.0	189.2	17.1	35.4	10.2	32.5	44.0	84.6%	65.7%
Woodford	206.4	185.1	13.4	39.3	-	15.3	50.8	73.6%	69.5%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 10: Buffalo Trace & Gateway ADDs Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Bath	\$44,898	2%	2%	43%	40%
Bracken	\$49,158	0%	1%	30%	0%
Fleming	\$44,612	2%	1%	36%	52%
Lewis	\$31,147	1%	0%	43%	52%
Mason	\$45,377	6%	2%	35%	69%
Menifee	\$39,325	0%	1%	45%	84%
Montgomery	\$45,516	3%	3%	35%	67%
Morgan	\$36,134	3%	1%	37%	57%
Robertson	\$41,902	2%	4%	35%	3%
Rowan	\$38,230	2%	2%	33%	98%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Bath	301.0	214.7	20.7	61.1	-	29.4	83.9	76.7%	62.3%
Bracken	329.6	232.3	22.3	86.4	-	28.1	70.1	77.2%	61.5%
Fleming	278.2	231.7	15.6	58.3	-	41.2	60.4	75.0%	59.4%
Lewis	283.3	223.7	21.3	63.7	-	29.7	78.8	74.5%	56.9%
Mason	227.8	196.5	18.4	42.0	18.6	13.1	74.2	75.3%	65.9%
Menifee	234.9	179.8	-	64.2	-	61.7	95.4	78.6%	53.2%
Montgomery	280.0	189.9	19.5	53.2	11.0	24.7	82.7	81.0%	59.6%
Morgan	247.9	183.4	-	55.8	-	24.7	70.0	82.6%	57.9%
Robertson	207.2	212.5	-	67.0	-	-	49.4	63.6%	47.4%
Rowan	236.1	186.6	12.8	45.1	-	22.6	65.8	75.5%	63.5%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 11: Cumberland Valley ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Bell	\$26,272	3%	1%	54%	84%
Clay	\$26,840	4%	3%	58%	99%
Harlan	\$26,478	2%	1%	56%	59%
Jackson	\$32,138	0%	0%	47%	72%
Knox	\$30,181	1%	1%	55%	45%
Laurel	\$41,526	1%	2%	41%	57%
Rockcastle	\$35,720	0%	1%	41%	31%
Whitley	\$39,005	1%	1%	53%	79%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Bell	241.1	191.4	15.6	52.0	10.2	12.8	71.1	81.7%	50.9%
Clay	311.9	199.5	21.3	54.6	23.7	36.4	81.5	82.4%	55.3%
Harlan	277.1	206.7	22.9	57.6	16.4	21.0	88.8	83.0%	52.4%
Jackson	233.1	183.0	11.7	42.2	-	-	76.3	90.2%	57.6%
Knox	305.5	224.7	13.5	65.7	14.2	23.1	97.2	82.9%	53.3%
Laurel	262.0	204.8	17.0	51.3	10.5	17.9	73.9	82.9%	61.8%
Rockcastle	270.1	199.0	17.4	53.7	15.1	23.4	74.8	80.0%	63.6%
Whitley	283.3	204.5	19.5	52.4	12.7	32.0	97.3	79.6%	54.8%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 12: Green River ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Daviess	\$51,673	4%	3%	29%	79%
Hancock	\$57,217	2%	2%	26%	9%
Henderson	\$48,926	7%	3%	29%	75%
McLean	\$51,861	1%	1%	29%	2%
Ohio	\$45,564	1%	3%	35%	39%
Union	\$46,673	13%	2%	30%	62%
Webster	\$42,119	4%	5%	30%	29%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Daviess	246.8	187.4	15.0	39.6	9.8	14.8	56.3	69.2%	66.8%
Hancock	212.9	151.4	-	32.1	-	-	58.0	71.8%	61.9%
Henderson	227.4	175.5	16.2	46.3	8.7	22.6	51.9	74.0%	60.7%
McLean	286.6	217.1	-	69.2	-	19.7	74.1	67.2%	63.0%
Ohio	245.9	187.2	10.9	49.9	-	23.2	76.7	78.9%	62.0%
Union	213.5	177.8	-	32.8	-	20.4	68.7	76.2%	54.8%
Webster	237.4	195.7	15.8	45.9	-	20.5	56.3	67.8%	59.0%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 13: Kentucky River ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Breathitt	\$27,344	1%	1%	59%	57%
Knott	\$31,198	1%	1%	50%	31%
Lee	\$25,275	1%	0%	54%	78%
Leslie	\$31,627	0%	0%	52%	100%
Letcher	\$29,886	0%	1%	49%	60%
Owsley	\$30,284	5%	0%	65%	87%
Perry	\$33,640	2%	1%	57%	79%
Wolfe	\$24,623	0%	0%	59%	54%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Breathitt	318.4	186.4	15.3	63.0	28.6	32.0	101.3	74.2%	54.3%
Knott	236.6	182.9	15.4	44.3	20.5	32.6	76.8	82.5%	51.6%
Lee	296.3	204.8	-	74.1	-	26.4	70.5	63.9%	56.8%
Leslie	258.7	169.9	22.2	33.6	-	45.9	96.0	87.1%	52.3%
Letcher	280.1	219.3	19.8	56.3	18.6	24.2	79.6	84.8%	58.6%
Owsley	312.0	211.9	-	49.1	-	-	98.7	83.3%	48.0%
Perry	294.4	215.6	23.1	61.1	15.3	27.0	88.8	81.3%	55.8%
Wolfe	277.0	195.1	24.1	55.5	-	-	86.5	86.2%	50.6%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 14: KIPDA ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Bullitt	\$63,348	1%	2%	21%	74%
Henry	\$53,926	3%	3%	28%	32%
Jefferson	\$56,586	22%	5%	28%	91%
Oldham	\$99,128	4%	4%	11%	94%
Shelby	\$67,056	7%	10%	20%	74%
Spencer	\$80,166	2%	2%	18%	54%
Trimble	\$53,056	0%	3%	26%	62%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Bullitt	245.7	197.9	14.2	44.9	10.6	17.6	54.8	74.7%	68.0%
Henry	261.3	193.6	9.7	36.3	-	27.1	50.0	73.0%	60.3%
Jefferson	226.9	197.2	16.3	43.8	10.1	21.9	51.3	76.3%	66.7%
Oldham	220.8	197.6	15.5	47.7	10.5	18.6	35.0	73.1%	71.2%
Shelby	238.5	199.7	11.5	42.8	8.3	16.4	60.8	78.2%	65.4%
Spencer	219.7	181.3	9.6	49.8	-	29.2	38.8	76.7%	73.4%
Trimble	256.7	222.1	-	50.8	-	27.4	79.3	87.5%	64.7%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 15: Lake Cumberland ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Adair	\$38,021	3%	2%	37%	60%
Casey	\$34,819	1%	3%	41%	0%
Clinton	\$32,184	0%	3%	47%	30%
Cumberland	\$35,344	2%	1%	43%	11%
Green	\$35,899	3%	1%	35%	8%
McCreary	\$28,105	6%	2%	51%	100%
Pulaski	\$39,998	1%	2%	39%	73%
Russell	\$38,390	0%	4%	42%	84%
Taylor	\$44,522	4%	2%	35%	83%
Wayne	\$34,914	2%	3%	44%	65%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Adair	254.9	192.1	18.4	60.8	-	20.0	51.0	79.1%	66.9%
Casey	254.9	163.2	21.9	43.3	19.8	29.2	66.1	77.9%	61.5%
Clinton	256.4	187.1	21.7	55.9	-	15.3	76.0	81.7%	59.0%
Cumberland	237.3	188.0	-	53.6	-	-	69.1	78.9%	52.9%
Green	242.7	210.6	-	47.1	32.7	27.8	55.4	80.8%	63.3%
McCreary	293.5	202.8	19.3	60.1	20.5	34.4	79.2	81.7%	52.8%
Pulaski	252.1	194.9	22.3	49.8	16.1	20.6	67.3	77.7%	60.1%
Russell	272.4	177.3	23.6	58.8	17.3	21.5	75.2	85.1%	57.1%
Taylor	269.9	234.0	17.9	67.0	14.8	15.9	63.6	77.5%	67.7%
Wayne	233.7	183.6	16.5	52.9	8.0	16.3	62.2	78.9%	57.0%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 16: Lincoln Trail ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Breckinridge	\$47,190	2%	2%	32%	43%
Grayson	\$38,612	1%	1%	36%	62%
Hardin	\$54,367	12%	6%	26%	55%
Larue	\$47,643	4%	3%	31%	55%
Marion	\$40,107	7%	3%	31%	48%
Meade	\$56,603	4%	4%	24%	47%
Nelson	\$60,127	5%	2%	25%	75%
Washington	\$53,743	5%	4%	30%	3%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Breckinridge	258.0	173.3	13.4	58.8	-	16.7	75.6	74.1%	56.6%
Grayson	280.8	186.4	21.9	57.0	16.3	18.4	67.4	77.2%	58.4%
Hardin	248.9	197.3	15.1	45.0	9.7	24.2	57.5	76.6%	64.8%
Larue	259.0	196.5	17.0	43.6	-	31.6	63.5	87.1%	65.1%
Marion	259.2	177.7	21.4	64.7	-	19.2	66.1	79.0%	69.1%
Meade	257.0	175.7	12.7	37.9	-	23.2	61.2	74.8%	60.8%
Nelson	233.9	182.6	14.2	52.3	7.7	24.0	65.1	74.9%	73.3%
Washington	238.5	198.3	-	62.9	-	24.6	67.1	86.7%	67.4%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 17: Northern Kentucky ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Boone	\$78,327	3%	4%	17%	85%
Campbell	\$63,050	3%	2%	18%	95%
Carroll	\$43,524	3%	7%	36%	72%
Gallatin	\$52,167	2%	5%	27%	40%
Grant	\$48,714	1%	3%	33%	62%
Kenton	\$64,339	5%	3%	23%	92%
Owen	\$48,801	1%	0%	34%	15%
Pendleton	\$54,375	1%	1%	29%	35%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Boone	208.1	185.5	13.4	47.9	6.7	14.0	49.4	79.3%	67.6%
Campbell	248.1	189.3	18.3	52.4	10.2	21.0	53.0	77.9%	61.3%
Carroll	295.3	188.3	20.6	45.9	28.2	63.8	108.1	82.4%	59.1%
Gallatin	290.2	167.5	-	49.0	-	32.8	87.8	80.7%	48.8%
Grant	259.9	216.8	23.2	46.1	25.2	17.2	73.1	78.6%	63.3%
Kenton	235.5	200.0	17.1	47.8	10.0	20.7	49.3	72.6%	62.6%
Owen	242.9	200.0	-	50.0	-	20.9	59.8	77.0%	69.6%
Pendleton	278.5	204.7	20.3	47.7	-	22.4	68.8	73.2%	65.4%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 18: Pennyrile ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Caldwell	\$44,775	6%	3%	30%	6%
Christian	\$43,919	22%	8%	27%	55%
Crittenden	\$45,244	1%	1%	26%	7%
Hopkins	\$47,170	6%	2%	31%	53%
Livingston	\$50,839	0%	2%	27%	44%
Lyon	\$52,528	6%	2%	20%	68%
Muhlenberg	\$43,590	5%	2%	33%	52%
Todd	\$44,005	8%	4%	28%	2%
Trigg	\$50,536	7%	2%	25%	60%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Caldwell	218.7	170.2	17.1	43.2	14.4	16.4	57.9	79.5%	61.2%
Christian	236.6	179.4	21.3	49.1	12.5	14.8	49.8	82.8%	62.5%
Crittenden	277.9	163.9	21.8	34.1	-	-	70.9	77.8%	62.2%
Hopkins	240.5	187.4	19.7	50.9	12.6	24.7	61.0	78.9%	59.2%
Livingston	257.6	194.5	13.9	45.6	-	18.0	55.3	72.5%	61.3%
Lyon	209.7	162.1	-	27.3	-	50.1	48.5	75.5%	60.0%
Muhlenberg	263.7	180.1	14.3	42.9	10.4	11.0	64.6	75.1%	58.3%
Todd	241.7	172.5	18.8	38.1	-	28.9	59.8	83.6%	55.0%
Trigg	227.9	177.4	11.3	51.3	-	21.2	52.4	81.8%	59.0%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 19: Purchase ADD Data

Social Determinants

County	Median Income	Black Population	Hispanic Population	Enrolled in Medicaid	Lack Exercise Access
Ballard	\$45,048	4%	1%	27%	48%
Calloway	\$42,273	4%	3%	22%	73%
Carlisle	\$45,109	1%	2%	32%	8%
Fulton	\$30,114	24%	2%	42%	83%
Graves	\$44,043	4%	7%	32%	46%
Hickman	\$42,929	8%	2%	31%	13%
Marshall	\$55,113	1%	2%	25%	57%
McCracken	\$46,080	10%	3%	30%	75%

Cancer-related Outcomes

County	IR Tobacco-rel	IR Obesity-rel	IR HPV-rel	IR Colorectal	IR Cervix	MR Breast	MR Lung	LS Lung	RS All Site
Ballard	206.8	154.9	-	29.1	-	17.1	66.2	80.0%	66.5%
Calloway	220.9	170.0	16.9	40.3	11.1	20.1	49.1	81.0%	60.3%
Carlisle	244.6	195.0	-	47.3	-	-	88.2	85.3%	59.8%
Fulton	234.9	188.8	-	50.5	-	42.1	72.9	80.6%	61.5%
Graves	227.2	175.5	18.8	42.0	17.2	15.6	51.9	78.2%	64.1%
Hickman	197.5	162.5	-	29.1	-	33.7	48.7	78.6%	56.5%
Marshall	228.8	190.3	12.1	41.3	8.7	16.2	56.5	80.8%	61.6%
McCracken	221.7	187.8	19.1	38.5	8.3	16.4	50.6	72.1%	64.5%

Abbreviations:

IR = Age-adjusted incidence rate; MR = age-adjusted mortality rate; LS = late-stage diagnoses; RS = relative survival

Table 20: Cancer Associations with Hazardous Substance Exposure

	Arsenic	Asbestos	Benzene	Diesel Exhaust	Dioxins	Formaldehyde	Herbicides	Lead	Pesticides	PFAS	Radon	Tobacco Smoke
Brain and NOS												
Digestive Tract												
Kidney and Renal Pelvis												
Larynx												
Leukemia												
Liver												
Lung and Bronchus												
Mesothelioma												
Myeloma												
Non-Hodgkin Lymphoma												
Nose												
Ovary												
Prostate												
Skin												
Soft-tissue Sarcomas												
Stomach												
Testis												
Urinary Bladder												

Table 21: Cancer Associations with Genetic Mutations

	APC	ATM	AXIN2	BARD1	BMPR1A	BRCA1	BRCA2	BRIP1	CDH1	CDK4	CDKN2A	CHEK2	DICER1	EPCAM	GREMI	HOXB13	MLH1	MSH2	MSH3 (biallelic)	MSH6	MUTYH (biallelic)	NBN (biallelic)	NFI	NTHL1 (biallelic)	PALB2	PM2	POLD1	POLE	PTEN	RAD51C	RAD51D	RECQL	SMAD4	SMARCA4	STK11	TP53	
Adrenal																																					
Brain																																					
Brain and ONS	■																■			■																	
Breast	■	■	■	■	■	■	■			■																											
Cervix Uteri																																					
Colon and Rectum	■	■	■	■	■	■	■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					
Eye																																					
Kidney and Renal Pelvis																																					
Leukemia																																					
Liver	■																																				
Lung and Bronchus													■																						■		
Melanoma							■	■	■																										■		
Nasal Cavity																																					
Ovary																																					
Pancreas	■	■									■																										
Pituitary																																					
Prostate	■																																				
Skin																																					
Small Intestine	■																																				
Stomach	■																																				
Testis																																					
Thyroid	■																																				
Urinary Bladder																																					
Uterus NOS																																					
Vagina																																					