ADA COUNTY CANCER PROFILE

A publication from the Cancer Data Registry of Idaho, Idaho Hospital Association.

Cancer Incidence 2017–2021
Cancer Mortality 2018–2022
BRFSS 2011–2022

CANCER

Cancer is a group of over 100 different diseases, each characterized by the uncontrolled growth and spread of abnormal cells. Cancer risk increases with age and varies by gender and race. As the average age of the population increases, the incidence of cancer will increase as well.

An estimated 42% of all cancers in the United States are due to personal lifestyle factors, such as smoking and sedentary lifestyle, and are preventable (10.3322/caac.21440). Cancers are also attributable to environmental factors and gene-environment interactions. Other non-modifiable factors, such as age, sex, and family history of specific cancers, are also associated with cancer risk and can help identify people at elevated risk for developing cancer.

For some cancers, early detection can save lives. For example, colorectal cancer screening reduces mortality in adults aged 50–75 years (10.1001/jama.2017.3332). Improved primary prevention, early detection, and effective treatment can reduce the burden of cancer in Idaho.

RISK FACTORS AND INTERVENTIONS

Aging:
As the population ages, the number of new cancer cases and cancer deaths that occur each year will continue to increase. This trend could be reversed through significant improvements in primary prevention, early detection, and treatment.

Smoking:

Smoking and the use of smokeless tobacco are responsible for most cancers of the lung, trachea, bronchus, larynx, pharynx, oral cavity, and esophagus. Smoking is the leading cause of preventable death in the United States (PMID: 24455788).

Diet:
The U.S. Departments of Agriculture and Health and Human Services recommend the following dietary guidelines: eat a variety of foods; choose a diet with plenty of fruits, vegetables, and whole-grain products; limit the use of sugar, salt, and solid fats; and minimize alcoholic beverage consumption. For details, see https://www.dietaryguidelines.gov

Screening:
Early detection through screening reduces morbidity and mortality for cancers that can be diagnosed early and treated.

FOR MORE INFORMATION

Cancer Data Registry of Idaho
P.O. Box 1278
Boise, ID 83701
208-489-1380
https://www.idcancer.org

National Cancer Institute
Cancer Information Services
1-800-4CANCER
https://www.cancer.gov/contact

American Cancer Society
https://www.cancer.org

CANCER INCIDENCE 2017–2021

Nearly one in two Idahoans are estimated to develop cancer during their lifetime. During 2017–2021, 47,333 cases of invasive cancer were diagnosed among Idaho residents, and 12,448 cases of invasive cancer were diagnosed among Ada County residents (Table 1).

Table 1: Incidence of All Cancers, Female Breast, Prostate, Lung and Bronchus, and Colorectal Cancers in Ada County and the State of Idaho, 2017–2021

Cancer Incidence 2017–2021	Ada County	State of Idaho
All Sites/Types	**12,448**	**47,333**
Female Breast	**2,053**	**6,943**
Prostate	**1,908**	**6,766**
Lung & Bronchus	**1,183**	**4,959**
Colorectal	**814**	**3,632**

Table 3 (*Cancer Incidence 2017–2021, Comparison between Ada County and the Remainder of the State of Idaho*) shows the number of observed cases, person-years, crude rates, age- and sex-adjusted rates, expected number of cases based upon age- and sex-specific rates in the remainder of Idaho, and p-values for tests comparing the number of observed and expected cases in Ada County. The table also shows the number of observed cases, person-years, and crude rates for the remainder of the state of Idaho. Comparisons between the county and the remainder of the state were made for all cancers combined, 23 invasive cancer types, in situ breast cancer, non-malignant brain and other central nervous system tumors, and pediatric (0–19 years) cancer. Separate comparisons for males, females, and both sexes combined are included.

As shown in Table 3, the crude incidence rate of invasive cancer in Ada County was 515.4 cases per 100,000 person-years per year during 2017–2021. Comparing this crude rate with the crude rate for the remainder of Idaho (530.4) gives an estimate of the relative burden of disease in Ada County.

The age- and sex-adjusted incidence rate of invasive cancer in Ada County, all sites combined, was 540.9 cases per 100,000 persons per year during 2017–2021. There were statistically significantly more cases of cancer in Ada County (12,448) than expected (12,208.0) based upon rates in the remainder of the state (p=.031).

There are many reasons why cancer incidence rates differ by county, such as the prevalence of smoking and other lifestyle factors, and access to healthcare.

CANCER MORTALITY 2018–2022

During 2018–2022, cancer was the second leading cause of death in Idaho; 15,233 Idaho residents and 3,684 Ada County residents died from cancer during this period. Most cancer deaths are from five primary sites: lung, colon, pancreas, female breast, and prostate (Table 2).

Table 2: Overall and Cancer Mortality in Ada County and the State of Idaho, 2018–2022

Mortality 2018–2022	Ada County	State of Idaho
All Deaths	**18,272**	**80,538**
Cancer Deaths	**3,684**	**15,233**
% of All Deaths	*20.2%*	*18.9%*
Lung & Bronchus	**679**	**2,937**
Colorectal	**281**	**1,332**
Pancreas	**308**	**1,190**
Female Breast	**295**	**1,111**
Prostate	**207**	**997**

Table 4 (*Cancer Mortality 2018–2022, Comparison between Ada County and the Remainder of the State of Idaho*) shows the number of observed deaths, person-years, crude rates, age- and sex-adjusted rates, expected number of deaths based upon age- and sex-specific rates in the remainder of Idaho, and p-values for tests comparing the number of observed and expected deaths for Ada County. The table also shows the number of observed deaths, person-years, and crude rates for the remainder of the state of Idaho. Comparisons between the county and the remainder of the state were made for all deaths, all cancer deaths, and 21 specific cancer types. Separate comparisons for males, females, and both sexes combined are included.

The age- and sex-adjusted cancer mortality rate for Ada County, all sites combined, was 158.7 deaths per 100,000 persons per year during 2018–2022, compared with 171.5 for the remainder of the state. There were statistically significantly fewer cancer deaths in Ada County (3,684) than expected (3,980.8) based upon rates in the remainder of the state (p<.001).

Statistical Note: Rates and percentages based upon 12 or fewer cases or deaths (numerator) should be interpreted with caution.
Data Note: Mortality data may differ slightly from published official statistics from the Bureau of Vital Records and Health Statistics.

TABLE 3: CANCER INCIDENCE 2017–2021
COMPARISON BETWEEN ADA COUNTY AND THE REMAINDER OF THE STATE OF IDAHO

Cancer Site/Type	Sex	Ada County						Remainder of Idaho		
		Observed Cases	Person Years	Crude Rate (1)	A.A.I. Rate (1,2)	Expected Cases (3)	P-Value (4)	Observed Cases	Person Years	Crude Rate (1)
All Sites Combined	Total	12,448	2,415,348	515.4	540.9	12,208.0	0.031 >>	34,885	6,576,758	530.4
All Sites Combined	Male	6,535	1,211,536	539.4	589.1	6,297.0	0.003 >>	18,735	3,300,737	567.6
All Sites Combined	Female	5,913	1,203,812	491.2	498.9	5,843.3	0.365	16,150	3,276,021	493.0
Bladder	Total	554	2,415,348	22.9	25.1	559.5	0.839	1,666	6,576,758	25.3
Bladder	Male	427	1,211,536	35.2	40.1	434.2	0.752	1,346	3,300,737	40.8
Bladder	Female	127	1,203,812	10.5	11.1	111.9	0.171	320	3,276,021	9.8
Brain - malignant	Total	181	2,415,348	7.5	7.6	171.7	0.497	476	6,576,758	7.2
Brain - malignant	Male	99	1,211,536	8.2	8.3	101.7	0.842	283	3,300,737	8.6
Brain - malignant	Female	82	1,203,812	6.8	6.9	69.6	0.159	193	3,276,021	5.9
Brain and other CNS - non-malignant	Total	390	2,415,348	16.1	16.6	413.1	0.266	1,157	6,576,758	17.6
Brain and other CNS - non-malignant	Male	123	1,211,536	10.2	10.6	132.3	0.448	377	3,300,737	11.4
Brain and other CNS - non-malignant	Female	267	1,203,812	22.2	22.4	283.3	0.349	780	3,276,021	23.8
Breast	Total	2,073	2,415,348	85.8	87.4	1,779.5	0.000 >>	4,935	6,576,758	75.0
Breast	Male	20	1,211,536	1.7	1.8	14.9	0.243	45	3,300,737	1.4
Breast	Female	2,053	1,203,812	170.5	170.9	1,793.5	0.000 >>	4,890	3,276,021	149.3
Breast - in situ	Total	468	2,415,348	19.4	19.5	329.5	0.000 >>	901	6,576,758	13.7
Breast - in situ	Male	1	1,211,536	0.1	0.1	1.1	1.000	3	3,300,737	0.1
Breast - in situ	Female	467	1,203,812	38.8	38.4	333.0	0.000 >>	898	3,276,021	27.4
Cervix	Female	64	1,203,812	5.3	4.9	91.5	0.003 <<	230	3,276,021	7.0
Colorectal	Total	814	2,415,348	33.7	35.0	996.5	0.000 <<	2,818	6,576,758	42.8
Colorectal	Male	420	1,211,536	34.7	36.7	539.4	0.000 <<	1,557	3,300,737	47.2
Colorectal	Female	394	1,203,812	32.7	33.4	454.2	0.004 <<	1,261	3,276,021	38.5
Corpus Uteri	Female	310	1,203,812	25.8	25.9	380.9	0.000 <<	1,044	3,276,021	31.9
Esophagus	Total	127	2,415,348	5.3	5.6	130.2	0.821	380	6,576,758	5.8
Esophagus	Male	107	1,211,536	8.8	9.7	107.3	1.000	322	3,300,737	9.8
Esophagus	Female	20	1,203,812	1.7	1.7	20.3	1.000	58	3,276,021	1.8
Hodgkin Lymphoma	Total	74	2,415,348	3.1	3.1	54.2	0.012 >>	148	6,576,758	2.3
Hodgkin Lymphoma	Male	40	1,211,536	3.3	3.3	32.6	0.229	89	3,300,737	2.7
Hodgkin Lymphoma	Female	34	1,203,812	2.8	2.8	21.5	0.015 >>	59	3,276,021	1.8
Kidney and Renal Pelvis	Total	461	2,415,348	19.1	19.9	526.1	0.004 <<	1,490	6,576,758	22.7
Kidney and Renal Pelvis	Male	312	1,211,536	25.8	27.3	345.3	0.075	998	3,300,737	30.2
Kidney and Renal Pelvis	Female	149	1,203,812	12.4	12.7	176.6	0.037 <<	492	3,276,021	15.0
Larynx	Total	47	2,415,348	1.9	2.1	59.5	0.111	173	6,576,758	2.6
Larynx	Male	38	1,211,536	3.1	3.5	43.0	0.500	129	3,300,737	3.9
Larynx	Female	9	1,203,812	0.7	0.8	15.6	0.107	44	3,276,021	1.3
Leukemia	Total	441	2,415,348	18.3	19.4	444.6	0.890	1,286	6,576,758	19.6
Leukemia	Male	262	1,211,536	21.6	23.6	259.9	0.915	774	3,300,737	23.4
Leukemia	Female	179	1,203,812	14.9	15.4	181.5	0.892	512	3,276,021	15.6
Liver and Bile Duct	Total	212	2,415,348	8.8	9.3	218.8	0.677	631	6,576,758	9.6
Liver and Bile Duct	Male	139	1,211,536	11.5	12.5	153.6	0.252	455	3,300,737	13.8
Liver and Bile Duct	Female	73	1,203,812	6.1	6.3	62.5	0.211	176	3,276,021	5.4
Lung and Bronchus	Total	1,183	2,415,348	49.0	53.4	1,272.9	0.011 <<	3,776	6,576,758	57.4
Lung and Bronchus	Male	569	1,211,536	47.0	53.1	625.2	0.024 <<	1,926	3,300,737	58.4
Lung and Bronchus	Female	614	1,203,812	51.0	53.8	644.1	0.243	1,850	3,276,021	56.5
Melanoma of the Skin	Total	964	2,415,348	39.9	41.2	776.3	0.000 >>	2,180	6,576,758	33.1
Melanoma of the Skin	Male	585	1,211,536	48.3	52.1	446.0	0.000 >>	1,310	3,300,737	39.7
Melanoma of the Skin	Female	379	1,203,812	31.5	31.2	322.9	0.003 >>	870	3,276,021	26.6
Myeloma	Total	191	2,415,348	7.9	8.5	184.5	0.651	537	6,576,758	8.2
Myeloma	Male	116	1,211,536	9.6	10.5	110.4	0.617	331	3,300,737	10.0
Myeloma	Female	75	1,203,812	6.2	6.5	72.7	0.819	206	3,276,021	6.3
Non-Hodgkin Lymphoma	Total	500	2,415,348	20.7	21.8	519.5	0.405	1,492	6,576,758	22.7
Non-Hodgkin Lymphoma	Male	306	1,211,536	25.3	27.2	285.9	0.248	840	3,300,737	25.4
Non-Hodgkin Lymphoma	Female	194	1,203,812	16.1	16.7	231.6	0.012 <<	652	3,276,021	19.9
Oral Cavity and Pharynx	Total	349	2,415,348	14.4	15.0	340.8	0.671	966	6,576,758	14.7
Oral Cavity and Pharynx	Male	249	1,211,536	20.6	21.8	238.6	0.517	691	3,300,737	20.9
Oral Cavity and Pharynx	Female	100	1,203,812	8.3	8.5	98.9	0.938	275	3,276,021	8.4
Ovary	Female	138	1,203,812	11.5	11.5	152.1	0.270	415	3,276,021	12.7
Pancreas	Total	377	2,415,348	15.6	16.8	380.0	0.906	1,111	6,576,758	16.9
Pancreas	Male	202	1,211,536	16.7	18.5	206.8	0.774	624	3,300,737	18.9
Pancreas	Female	175	1,203,812	14.5	15.2	171.1	0.785	487	3,276,021	14.9
Prostate	Male	1,908	1,211,536	157.5	174.5	1,608.9	0.000 >>	4,858	3,300,737	147.2
Stomach	Total	109	2,415,348	4.5	4.8	126.7	0.120	365	6,576,758	5.5
Stomach	Male	69	1,211,536	5.7	6.3	79.3	0.269	238	3,300,737	7.2
Stomach	Female	40	1,203,812	3.3	3.4	46.0	0.424	127	3,276,021	3.9
Testis	Male	85	1,211,536	7.0	6.4	75.6	0.308	189	3,300,737	5.7
Thyroid	Total	311	2,415,348	12.9	12.4	333.3	0.230	874	6,576,758	13.3
Thyroid	Male	90	1,211,536	7.4	7.4	103.6	0.193	282	3,300,737	8.5
Thyroid	Female	221	1,203,812	18.4	17.5	228.6	0.646	592	3,276,021	18.1
Pediatric Age 0 to 19	Total	106	620,640	17.1	17.1	105.2	0.965	319	1,878,684	17.0
Pediatric Age 0 to 19	Male	47	317,672	14.8	14.8	55.3	0.295	167	956,649	17.5
Pediatric Age 0 to 19	Female	59	302,968	19.5	19.5	49.8	0.222	152	922,035	16.5

Notes: 1. Rates are expressed as the number of cases per 100,000 persons per year (person-years).

2. Age and sex-adjusted incidence (A.A.I.) rates for county use age and sex-specific crude rates for the remainder of the state as standard.

3. Expected cases are based upon age and sex-specific rates for the remainder of the state of Idaho (compare to observed).

4. P-values compare observed and expected cases, are two tailed, based upon the Poisson probability distribution.

"<<" denotes significantly fewer cases observed than expected, ">>" denotes significantly more cases observed than expected (p=.05).

Statistical Note: Rates based upon 12 or fewer cases (numerator) should be interpreted with caution.

TABLE 4: CANCER MORTALITY 2018–2022
COMPARISON BETWEEN ADA COUNTY AND THE REMAINDER OF THE STATE OF IDAHO

Cause of Death Cancer Site/Type	Sex	Ada County						Remainder of Idaho		
		Observed Deaths	Person Years	Crude Rate (1)	A.A.M. Rate (1,2)	Expected Deaths (3)	P-Value (4)	Observed Deaths	Person Years	Crude Rate (1)
All Causes of Death	Total	18,272	2,477,261	737.6	784.3	21,539.7	0.000 <<	62,263	6,734,133	924.6
All Causes of Death	Male	9,440	1,245,093	758.2	826.6	11,257.5	0.000 <<	33,346	3,382,604	985.8
All Causes of Death	Female	8,832	1,232,168	716.8	746.2	10,211.5	0.000 <<	28,917	3,351,529	862.8
All Malignant Cancers	Total	3,684	2,477,261	148.7	158.7	3,980.8	0.000 <<	11,549	6,734,133	171.5
All Malignant Cancers	Male	1,905	1,245,093	153.0	169.4	2,104.4	0.000 <<	6,330	3,382,604	187.1
All Malignant Cancers	Female	1,779	1,232,168	144.4	149.4	1,854.0	0.082	5,219	3,351,529	155.7
Bladder	Total	117	2,477,261	4.7	5.1	124.2	0.557	368	6,734,133	5.5
Bladder	Male	82	1,245,093	6.6	7.5	95.1	0.191	293	3,382,604	8.7
Bladder	Female	35	1,232,168	2.8	3.0	26.0	0.106	75	3,351,529	2.2
Brain and Other Nervous System	Total	150	2,477,261	6.1	6.2	131.5	0.121	368	6,734,133	5.5
Brain and Other Nervous System	Male	81	1,245,093	6.5	6.8	72.9	0.370	208	3,382,604	6.1
Brain and Other Nervous System	Female	69	1,232,168	5.6	5.7	58.2	0.183	160	3,351,529	4.8
Breast	Total	298	2,477,261	12.0	12.6	290.9	0.692	826	6,734,133	12.3
Breast	Male	3	1,245,093	0.2	0.3	3.2	1.000	10	3,382,604	0.3
Breast	Female	295	1,232,168	23.9	24.4	294.0	0.969	816	3,351,529	24.3
Cervix	Female	21	1,232,168	1.7	1.6	25.8	0.397	67	3,351,529	2.0
Colorectal	Total	281	2,477,261	11.3	11.9	369.0	0.000 <<	1,051	6,734,133	15.6
Colorectal	Male	152	1,245,093	12.2	13.1	199.7	0.001 <<	580	3,382,604	17.1
Colorectal	Female	129	1,232,168	10.5	10.8	168.2	0.002 <<	471	3,351,529	14.1
Corpus Uteri	Female	49	1,232,168	4.0	4.1	42.6	0.360	120	3,351,529	3.6
Esophagus	Total	125	2,477,261	5.0	5.4	116.1	0.430	336	6,734,133	5.0
Esophagus	Male	105	1,245,093	8.4	9.2	96.0	0.385	286	3,382,604	8.5
Esophagus	Female	20	1,232,168	1.6	1.7	17.6	0.631	50	3,351,529	1.5
Hodgkin Lymphoma	Total	8	2,477,261	0.3	0.3	5.8	0.454	17	6,734,133	0.3
Hodgkin Lymphoma	Male	6	1,245,093	0.5	0.6	2.6	0.091	8	3,382,604	0.2
Hodgkin Lymphoma	Female	2	1,232,168	0.2	0.2	3.2	0.765	9	3,351,529	0.3
Kidney	Total	99	2,477,261	4.0	4.3	97.8	0.930	287	6,734,133	4.3
Kidney	Male	64	1,245,093	5.1	5.7	60.3	0.668	182	3,382,604	5.4
Kidney	Female	35	1,232,168	2.8	3.0	36.6	0.876	105	3,351,529	3.1
Larynx	Total	22	2,477,261	0.9	0.9	18.6	0.493	54	6,734,133	0.8
Larynx	Male	18	1,245,093	1.4	1.6	15.6	0.615	47	3,382,604	1.4
Larynx	Female	4	1,232,168	0.3	0.3	2.5	0.500	7	3,351,529	0.2
Leukemia	Total	173	2,477,261	7.0	7.5	168.4	0.743	492	6,734,133	7.3
Leukemia	Male	96	1,245,093	7.7	8.6	99.7	0.759	301	3,382,604	8.9
Leukemia	Female	77	1,232,168	6.2	6.5	67.1	0.256	191	3,351,529	5.7
Liver and Bile Duct	Total	156	2,477,261	6.3	6.7	165.9	0.470	479	6,734,133	7.1
Liver and Bile Duct	Male	103	1,245,093	8.3	9.1	107.6	0.703	320	3,382,604	9.5
Liver and Bile Duct	Female	53	1,232,168	4.3	4.4	56.5	0.703	159	3,351,529	4.7
Lung and Bronchus	Total	679	2,477,261	27.4	29.6	768.9	0.001 <<	2,258	6,734,133	33.5
Lung and Bronchus	Male	341	1,245,093	27.4	30.6	394.7	0.006 <<	1,200	3,382,604	35.5
Lung and Bronchus	Female	338	1,232,168	27.4	28.7	371.2	0.087	1,058	3,351,529	31.6
Melanoma of the Skin	Total	78	2,477,261	3.1	3.3	77.7	1.000	223	6,734,133	3.3
Melanoma of the Skin	Male	54	1,245,093	4.3	4.7	49.2	0.531	146	3,382,604	4.3
Melanoma of the Skin	Female	24	1,232,168	1.9	2.0	27.6	0.567	77	3,351,529	2.3
Myeloma	Total	76	2,477,261	3.1	3.3	84.3	0.397	249	6,734,133	3.7
Myeloma	Male	39	1,245,093	3.1	3.5	48.9	0.172	149	3,382,604	4.4
Myeloma	Female	37	1,232,168	3.0	3.2	34.8	0.749	100	3,351,529	3.0
Non-Hodgkin Lymphoma	Total	119	2,477,261	4.8	5.2	152.9	0.005 <<	449	6,734,133	6.7
Non-Hodgkin Lymphoma	Male	67	1,245,093	5.4	6.0	80.3	0.146	243	3,382,604	7.2
Non-Hodgkin Lymphoma	Female	52	1,232,168	4.2	4.4	72.0	0.017 <<	206	3,351,529	6.1
Oral Cavity and Pharynx	Total	70	2,477,261	2.8	3.0	71.0	0.968	205	6,734,133	3.0
Oral Cavity and Pharynx	Male	53	1,245,093	4.3	4.7	46.4	0.371	139	3,382,604	4.1
Oral Cavity and Pharynx	Female	17	1,232,168	1.4	1.4	23.7	0.197	66	3,351,529	2.0
Ovary	Female	96	1,232,168	7.8	8.0	94.7	0.918	265	3,351,529	7.9
Pancreas	Total	308	2,477,261	12.4	13.3	302.9	0.785	882	6,734,133	13.1
Pancreas	Male	166	1,245,093	13.3	14.8	160.7	0.696	484	3,382,604	14.3
Pancreas	Female	142	1,232,168	11.5	12.0	140.7	0.935	398	3,351,529	11.9
Prostate	Male	207	1,245,093	16.6	19.0	255.0	0.002 <<	790	3,382,604	23.4
Stomach	Total	48	2,477,261	1.9	2.0	51.9	0.655	146	6,734,133	2.2
Stomach	Male	26	1,245,093	2.1	2.3	31.5	0.375	93	3,382,604	2.7
Stomach	Female	22	1,232,168	1.8	1.8	19.7	0.668	53	3,351,529	1.6

Notes: 1. Rates are expressed as the number of cases per 100,000 persons per year (person-years).
2. Age and sex-adjusted mortality (A.A.M.) rates for county use age and sex-specific crude rates for the remainder of the state as standard.
3. Expected cases are based upon age and sex-specific rates for the remainder of the state of Idaho (compare to observed).
4. P-values compare observed and expected cases, are two tailed, based upon the Poisson probability distribution.
"<<" denotes significantly fewer cases observed than expected, ">>" denotes significantly more cases observed than expected (p=.05).

Statistical Notes: Rates based upon 12 or fewer cases (numerator) should be interpreted with caution.
Mortality statistics presented differ from BVRHS official statistics due to differences in methodology.

Data Source: Bureau of Vital Records and Health Statistics (BVRHS), Division of Public Health, Idaho Department of Health and Welfare, 2023.

Cancer Screening and Risk Factors

The Division of Public Health (DPH), Idaho Department of Health and Welfare, under a cooperative agreement with the Centers for Disease Control and Prevention, has conducted telephone Behavioral Risk Factor Surveys since 1984. These surveys are conducted with randomly selected adult Idahoans to measure population prevalences of risk factors for major causes of death in the U.S., including cancer. DPH provided Behavioral Risk Factor Surveillance System (BRFSS) data from 2011 through 2022 to CDRI staff, who performed the analyses reported in these *County Profiles*. Analysis weights were post-stratified to 2022 population estimates by age group, sex, and county, beginning with the BRFSS raked weights. Not all questions were asked in all years. Crude prevalence estimates are presented herein; a minimum of 50 respondents was required to generate county-level statistics. Results may differ from IDHW reports due to differences in methods. Cancer screening and risk factor measures were selected to assist in monitoring *Comprehensive Cancer Alliance for Idaho* (CCAI) objectives. Wald log-linear chi-square statistics were used to test for independence of the selected measures and other variables, such as age and race, taking the complex survey design into account.

Cancer Screening and Risk Factor Prevalence Estimates, 2011–2022

Measure	State of Idaho	HD 1	HD 2	HD 3	HD 4	HD 5	HD 6	HD 7	Ada County
Access to Care									
Have Health Insurance, Age < 65 (2021–2022)	90.0%	89.3%	87.8%	86.4%	92.6%	87.2%	89.1%	92.6%	93.1%
Not See Doctor Due to Cost in Past Year (2020–2022)	10.4%	9.5%	11.0%	11.0%	10.2%	10.2%	10.4%	11.3%	10.2%
Cancer Screening									
Mammogram Past 2 Years, Age 40–74 (2014–2022, even years)	62.9%	61.0%	70.0%	60.3%	66.1%	58.9%	61.0%	62.5%	66.2%
Pap Test Past 3 Years, Cervix Intact Age 21–65 (2018, 2020)	71.1%	73.7%	73.6%	70.9%	72.9%	69.4%	69.3%	65.5%	73.8%
Colorectal Cancer Screening, Age 45–75 (2022)	63.3%	61.0%	62.5%	60.8%	67.2%	65.0%	60.4%	60.2%	67.2%
Tobacco Use									
Current Tobacco User (2020–2022)	22.1%	24.3%	20.4%	24.8%	21.3%	22.5%	22.6%	18.1%	20.5%
Other Cancer-Related									
Healthy Weight by Body Mass Index, Age 20+ (2020–2022)	30.0%	30.0%	30.1%	26.5%	33.7%	27.5%	26.7%	30.2%	34.0%
Any Physical Activity Besides Job Past 30 Days (2018–2022)	79.1%	79.0%	78.0%	75.4%	82.7%	75.2%	76.7%	81.0%	83.5%
Meet Physical Activity Guidelines (2011, 2013, 2015, 2017, 2019)	22.0%	22.8%	19.2%	20.0%	25.2%	19.5%	20.4%	20.3%	25.5%
Home Ever Tested for Radon (2016, 2018, 2020)	22.9%	30.8%	18.3%	16.9%	25.2%	20.1%	23.0%	21.0%	25.8%

Access to Care

Have Health Insurance – 2021–2022
Statewide, 90.0% of adults aged 18–64 reported having health care coverage. Health care coverage differed significantly by race/ethnicity, with 91.4% of white non-Hispanics, compared to 81.5% of Hispanics and 90.5% of Native Americans, having health insurance. Spanish-speaking respondents were significantly less likely to be insured (46.0%) than English-speaking respondents (90.5%). Health care coverage differed significantly by age of respondent, with 87.2% of persons aged 18–29, and 93.4% of persons aged 50–64, having health insurance. Health care coverage differed significantly by county, with a range of 64.8% in Idaho County to 95.9% in Shoshone County having health insurance.

Not See Doctor Due to Cost in Past Year – 2020–2022
Statewide, 10.4% of adults aged 18+ reported they needed to see a doctor but could not because of cost sometime in the past 12 months. Inability to see a doctor due to cost differed significantly by race/ethnicity (9.2% of white non-Hispanics, 16.9% of Hispanics, and 15.7% of Native Americans). Inability to see a doctor due to cost differed significantly by annual household income (21.9% for less than $15,000, 5.8% for greater than $50,000).

Cancer Screening

Mammogram – 2014–2022, even years
Statewide, 62.9% of women aged 40–74 reported having a mammogram in the past 2 years. Insured women were about twice as likely to have had a mammogram in the past 2 years (66.3% versus 31.2%). Mammography rates differed significantly by county, with a range in screening of 41.6% in Owyhee County to 76.1% in Nez Perce County. In 2022, Idaho ranked 49th among states and the District of Columbia for mammography screening rates among women aged 40+.

Pap Test – 2018, 2020
Statewide, 71.1% of women with an intact cervix and aged 21–65 reported having a Pap test in the past 3 years. Women with health insurance were significantly more likely to have timely Pap screening than uninsured women (75.0% versus 52.8% screened in the past 3 years). Pap screening differed significantly by county, with a range of 50.6% in Bingham County to 78.9% in Bannock County. In 2020, Idaho ranked 49th among states and the District of Columbia for Pap screening rate.

Colorectal Cancer Screening – 2022
Statewide, 63.3% of adults aged 45–75 reported being current for colorectal cancer screening.** Persons with health insurance were over twice as likely to be current for colorectal cancer screening. In 2022, Idaho ranked 42nd among states and the District of Columbia in the percentage of adults aged 45–75 and older who reported being up-to-date for colorectal cancer screening.

** Current for colorectal cancer screening means a blood stool test in the past year, sigmoidoscopy in the past 5 years and blood stool test in the past 3 years, blood stool DNA test in the past 3 years, virtual colonoscopy in the past 5 years, or a colonoscopy in the past 10 years.

Cancer Screening and Risk Factors

Tobacco Use

Current Tobacco Use – 2020–2022
Current tobacco use includes at least 1 form of cigarettes; cigars, cigarillos, filtered little cigars; regular pipes, water pipes, hookah; e-cigarettes; and/or smokeless tobacco products every day or some days. Statewide, 22.1% of adults aged 18 and older were current tobacco users. Tobacco use differed significantly by age of respondent, with 28.9% of persons aged 18–29, and 10.7% of persons aged 65 and older reporting current tobacco use. Tobacco use was lower among white non-Hispanics (21.5%) than among Native Americans (38.0%). Tobacco use differed significantly by county, with a range of 6.1% in Madison County to 33.5% in Elmore County. Counties with higher rates of tobacco use had significantly higher rates of lung cancer.

Other Cancer-Related

Healthy Weight by Body Mass Index – 2020–2022
Statewide, 30.0% of adults aged 20 and older were in the healthy weight range as measured by body mass index (BMI 18.5–24.9). BMI differed significantly by race/ethnicity, with 30.5% of white non-Hispanics, compared to 25.8% of Hispanics and 21.5% of Native Americans, being in the healthy weight range. Males (24.4%) were significantly less likely to be in the healthy weight range than females (35.7%). BMI differed significantly by age of respondent, with 41.1% of persons aged 18–29, and 23.4% of persons aged 50–64, being in the healthy weight range. BMI differed significantly by county, with a range of 11.7% in Power County to 44.3% in Blaine County of adults being in the healthy weight range.

Any Physical Activity – 2018-2022
CCAI is measuring physical activity with two metrics: Any physical activity besides job in past 30 days and meeting aerobic and strength physical activity guidelines during the past month or week. Statewide, 79.1% of adults aged 18 and older reported physical activity besides their job in the past 30 days. Physical activity differed significantly by age of respondent, with 83.7% of persons aged 18–29, and 72.5% of persons aged 65+, reporting any physical activity besides their job. The percentage of adults reporting any physical activity differed significantly by county, with a range of 66.9% in Oneida County to 88.3% in Teton County. Counties with higher rates of physical activity had significantly lower rates of overall and colorectal cancer.

Physical Activity Guidelines – 2011, 2013, 2015, 2017, 2019
Statewide, 22.0% of adults aged 18 and older met aerobic and strength physical activity guidelines during the past month or week. Meeting physical activity guidelines differed significantly by age of respondent, with 26.2% of persons aged 18–29, and 19.2% of persons aged 50–64, meeting guidelines. The percentage of adults meeting physical activity guidelines differed significantly by county, with a range of 9.5% in Franklin County to 30.7% in Blaine County.

Home Radon Testing – 2016, 2018, 2020
Statewide, 22.9% of adults have ever tested their house for radon. Radon test usage varied significantly by race/ethnicity, with 25.1% of white non-Hispanics, 7.3% of Hispanics, and 25.4% of Native Americans having ever tested their house for radon. Radon test usage was higher for persons aged 50+ than for younger persons. Home radon testing differed significantly by county, with a range of 8.7% in Cassia County to 54.7% in Blaine County.

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CDRI Cancer Data Registry of Idaho

Idaho Hospital Association