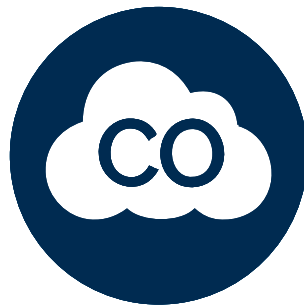


## **Section 7: Cancer**





# Section 7: Cancer

## Key Points

**112,503**

Primary cancers diagnosed in Florida in 2015



Cancer rate per 100,000 population increased from 408 to 419 from 1981 to 2015



59% of newly diagnosed cancers in 2015 in Florida were in adults ≥65 years old



4 most common cancers in 2015 in Florida:

- Lung and bronchus (14%)
- Female breast (14%)
- Prostate (10%)
- Colorectal (9%)

## General Trends for 2015

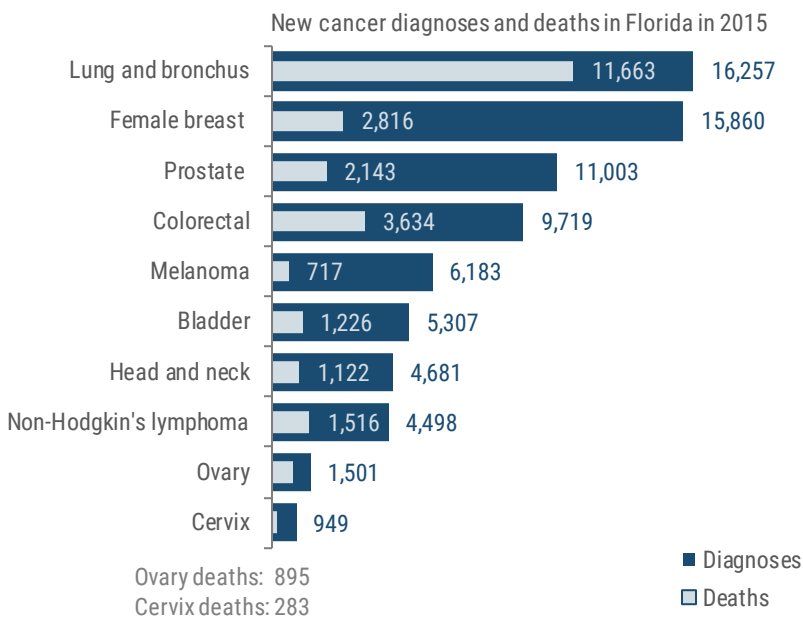
During 2015, physicians diagnosed 112,503 primary cancers (i.e., the site or organ where the cancer starts) among Floridians, an average of 308 new cases per day. The overall rate of occurrence for all cancers combined in the state has increased from 407.8 new cases per 100,000 in 1981 to 419.0 new cases per 100,000 in 2015. However, this has not been a steady increase from 1981 to 2015, as cancer patterns vary year to year. Cancer occurs predominantly among older people as age is the top risk factor. Almost 60% of the newly diagnosed cancers in 2015 occurred in people ≥65 years old; this age group accounted for 18% of Florida's 2015 population.

From 2006–2015, disparities in Florida for all cancers combined include:

- A higher cancer incidence and death for males compared to females.
- A lower cancer incidence for black females compared to white females, though no significant difference in the rate of death.
- A higher incidence and death rate for black males compared to white males, though the racial gap has lessened.

**The most common cancers in Floridians were lung and bronchus, breast, prostate, and colorectal.** These accounted for 53% of all new cases in blacks and 46% of all new cases in whites.

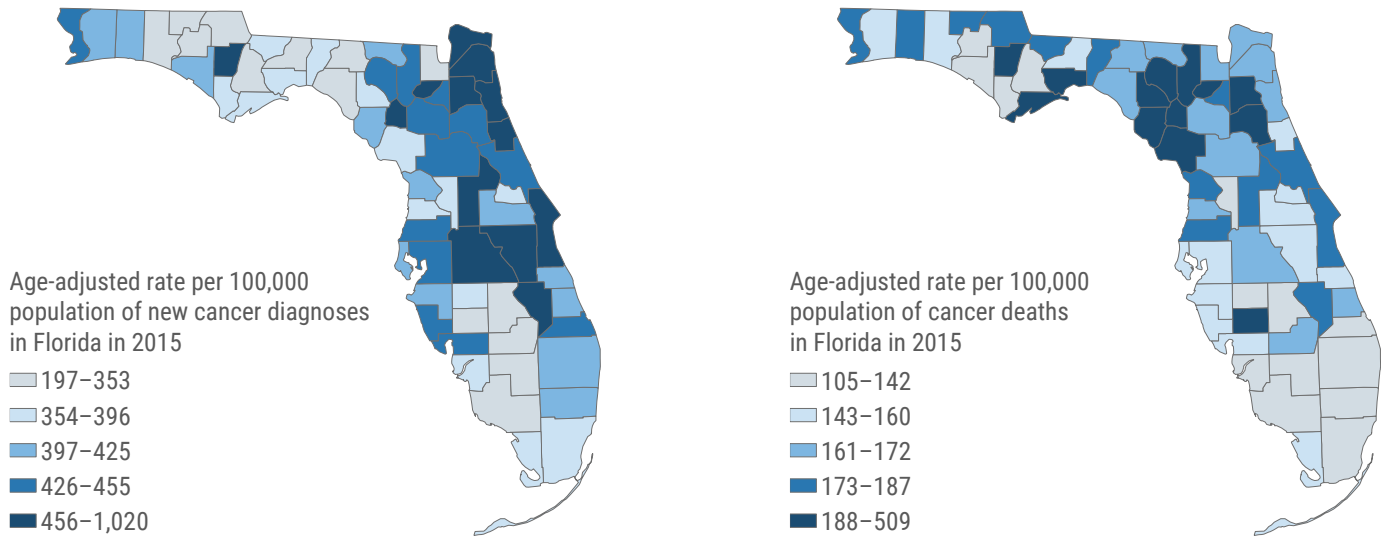
**Cancer remains the second leading cause of death in Florida with over 43,000 cancer deaths occurring in 2015.** In years of potential life lost up to age 75, cancer ranks first, surpassing heart disease and stroke combined and unintentional injuries.



Characteristic	All cancer diagnoses	All cancer deaths
Florida	112,503	43,438
<b>Sex</b>		
Female	55,403	19,834
Male	57,061	23,604
<b>Race</b>		
Black	11,897	4,552
White	96,456	37,961
<b>Sex and race</b>		
Black female	5,992	2,175
White female	47,241	17,187
Black male	5,900	2,377
White male	49,183	20,774

## Section 7: Cancer

Collectively, the number of new cancer cases and deaths that occurred in Miami-Dade, Broward, Palm Beach, Hillsborough, and Pinellas counties accounted for approximately 38% of new cancer diagnoses and 36% of cancer deaths in Florida during 2015. For all cancers combined, the Florida age-adjusted rate of occurrence for new cancer cases was 419.0 per 100,000 population and 152.1 per 100,000 population for cancer-related deaths.



For more data on cancer and death incidence in 2015, see the Cancer Appendix: 2015 Data.

### Background

The term cancer covers many diseases that share the common feature of abnormal cell growth. It can occur in almost any part of the body. Early detection through routine health and cancer screenings and timely quality treatment and care may improve prognosis and survival. Each type of cancer develops differently and has different risk factors. For example, the main risk factor for lung cancer is cigarette smoking, but for skin cancer it is sun exposure. The cause of some common cancers, such as breast cancer, remain unknown; however, age is the number one risk factor for all cancer types.

### Reporting and Surveillance

Florida Statutes Section 385.202 requires all hospitals and outpatient facilities licensed in Florida to report to the Florida Department of Health each patient diagnosed or treated for cancer. Information to be reported on each patient includes routine personal and demographic data, diagnosis, stage of disease at diagnosis, medical history, laboratory data, tissue diagnosis, and initial course of treatment. Cancer incidence data are collected, verified, and maintained by the Florida Cancer Data System (FCDS), Florida's statewide cancer registry. The FCDS is administered by the Florida Department of Health's Public Health Research Section and operated by the Sylvester Comprehensive Cancer Center at the University of Miami Leonard M. Miller School of Medicine. The FCDS is used by the state and its partners to monitor the occurrence of cancer incidence and mortality, aid in research studies to reduce cancer morbidity and mortality, focus cancer control activities, and address public questions and concerns regarding cancer.

The FCDS began operations with a pilot project for cancer registration in 1980 and commenced statewide collection of cancer incidence data (i.e., new cancer cases) from all Florida hospitals in 1981. The FCDS now collects incidence data from hospitals, freestanding ambulatory surgical centers, radiation therapy facilities, pathology laboratories, and private physician offices. Each facility, laboratory, and practitioner is required to report to the FCDS within six months of each diagnosis and within six months of the date of each treatment. Consequently, there is an inherent time lag of one to two years in the release of cancer registry data for surveillance activities and publications. At the time this report was published, the most recent FCDS data available were from 2015.

For more information about the burden of cancer in Florida, see the Florida Annual Cancer Report, an epidemiological series available on the FCDS web site at <https://fcds.med.miami.edu/inc/publications.shtml>.

# Section 7: Cancer

## Cancer Appendix: 2015 Data

Number of new cancer diagnoses by sex and race in Florida in 2015

Characteristic	All cancers	Lung and bronchus	Female breast	Prostate	Colorectal	Melanoma
Florida	112,503	16,257	15,860	11,003	9,719	6,183
<b>Sex</b>						
Female	55,403	7,747	15,860	NA	4,632	2,219
Male	57,061	8,502	NA	11,003	5,083	3,964
<b>Race</b>						
Black	11,897	1,290	1,843	1,908	1,210	--
White	96,456	14,580	13,307	8,751	8,129	6,183
<b>Sex and race</b>						
Black female	5,992	568	1,843	NA	577	--
White female	47,241	7,011	13,307	NA	3,869	2,219
Black male	5,900	722	NA	1,908	632	--
White male	49,183	7,562	NA	8,751	4,257	3,964

Number of new cancer diagnoses by sex and race in Florida in 2015 (continued)

Characteristic	Bladder	Head and neck	Non-Hodgkin's lymphoma	Ovary	Cervix
Florida	5,307	4,681	4,498	1,501	949
<b>Sex</b>					
Female	1,265	1,163	2,063	1,501	949
Male	4,040	3,515	2,433	NA	NA
<b>Race</b>					
Black	239	381	424	138	188
White	4,876	4,173	3,907	1,299	720
<b>Sex and race</b>					
Black female	70	93	211	138	188
White female	1,155	1,041	1,782	1,299	720
Black male	169	288	212	NA	NA
White male	3,720	3,129	2,124	NA	NA

Number of cancer deaths by sex and race in Florida in 2015

Characteristic	All cancers	Lung and bronchus	Female breast	Prostate	Colorectal	Melanoma
Florida	43,438	11,663	2,816	2,143	3,634	717
<b>Sex</b>						
Female	19,834	5,217	2,816	NA	1,701	220
Male	23,604	6,446	NA	2,143	1,933	497
<b>Race</b>						
Black	4,552	943	415	348	459	--
White	37,961	10,530	2,324	1,742	3,079	717
<b>Sex and race</b>						
Black female	2,175	357	415	NA	214	--
White female	17,187	4,767	2,324	NA	1,441	220
Black male	2,377	586	NA	348	245	--
White male	20,774	5,763	NA	1,742	1,638	497

-- Counts for cells with <10 cases are suppressed  
 NA Not applicable for gender-specific cancer types

## Section 7: Cancer

Number of cancer deaths by sex and race in Florida in 2015 (continued)

Characteristic	Bladder	Head and neck	Non-Hodgkin's lymphoma	Ovary	Cervix
Florida	1,226	1,122	1,516	895	283
<b>Sex</b>					
Female	365	268	642	895	283
Male	861	854	874	NA	NA
<b>Race</b>					
Black	70	110	145	80	44
White	1,139	993	1,342	794	230
<b>Sex and race</b>					
Black female	29	23	76	80	44
White female	329	239	549	794	230
Black male	41	87	69	NA	NA
White male	810	754	793	NA	NA

-- Counts for cells with <10 cases are suppressed  
NA Not applicable for gender-specific cancer types

Age-adjusted cancer incidence and mortality rates per 100,000 population per year in Florida in 2015 (age adjusted to the 2000 U.S. Standard Population)

	Age-adjusted incidence rate (confidence interval)	Age-adjusted mortality rate (confidence interval)
<b>All cancers</b>	<b>419.0 (416.5, 421.6)</b>	<b>152.1 (150.6, 153.5)</b>
Breast	117.9 (115.9, 119.8)	19.3 (18.5, 20.0)
Prostate	81.9 (80.4, 83.5)	16.4 (15.8, 17.2)
Lung and bronchus	56.7 (55.8, 57.6)	40.3 (39.5, 41.0)
Colorectal	35.9 (35.2, 36.7)	12.8 (12.4, 13.3)
Melanoma	27.5 (26.8, 28.2)	3.1 (2.8, 3.3)
Bladder	18.4 (17.9, 18.9)	4.1 (3.9, 4.3)
Head and neck	17.3 (16.8, 17.8)	3.9 (3.7, 4.2)
Non-Hodgkin's lymphoma	17.1 (16.6, 17.7)	5.3 (5.1, 5.6)
Ovary	11.0 (10.4, 11.6)	5.8 (5.5, 6.3)
Cervix	9.0 (8.4, 9.6)	2.3 (2.0, 2.6)

Number of new cancer diagnoses by county in Florida in 2015

	All cancers	Lung and bronchus	Prostate	Breast	Colorectal	Bladder	Head and neck	Non-Hodgkin's lymphoma	Melanoma	Ovary	Cervix
<b>Florida</b>	<b>112,503</b>	<b>16,257</b>	<b>11,003</b>	<b>15,860</b>	<b>9,719</b>	<b>5,307</b>	<b>4,681</b>	<b>4,498</b>	<b>6,183</b>	<b>1,501</b>	<b>949</b>
Alachua	1,172	141	130	181	96	40	43	45	75	15	11
Baker	102	19	--	13	10	--	--	--	--	--	--
Bay	919	168	92	122	83	42	47	30	41	--	13
Bradford	148	30	19	16	18	--	--	--	--	--	--
Brevard	4,016	663	360	578	307	224	182	158	270	59	23
Broward	9,271	1,109	855	1,425	820	402	387	386	421	102	105
Calhoun	88	17	--	--	--	--	--	--	--	--	--
Charlotte	1,524	270	120	174	151	87	57	44	149	22	--
Citrus	1,149	205	95	140	108	41	76	41	55	18	13
Clay	1,100	177	102	139	73	43	44	42	76	16	12
Collier	1,845	228	239	245	128	68	58	74	193	26	17
Columbia	396	76	40	55	30	13	14	15	15	--	--
Desoto	152	22	23	13	14	11	--	--	--	--	--
Dixie	111	23	--	12	--	--	--	--	--	--	--
Duval	4,683	687	390	679	387	193	219	197	210	66	41

-- Counts for cells with <10 cases are suppressed

## Section 7: Cancer

Number of new cancer diagnoses by county in Florida in 2015 (continued)

	All cancers	Lung and bronchus	Prostate	Breast	Colorectal	Bladder	Head and neck	Non-Hodgkin's lymphoma	Melanoma	Ovary	Cervix
Escambia	1,703	291	149	230	158	75	58	78	93	17	--
Flagler	876	140	80	101	74	50	33	32	96	13	--
Franklin	57	12	--	--	--	--	--	--	--	--	--
Gadsden	222	36	32	31	16	--	--	--	--	--	--
Gilchrist	102	22	--	15	10	--	--	--	--	--	--
Glades	41	--	--	--	--	--	--	--	--	--	--
Gulf	88	16	--	13	13	--	--	--	--	--	--
Hamilton	77	21	--	--	--	--	--	--	--	--	--
Hardee	110	12	--	17	15	--	--	--	--	--	--
Hendry	133	24	15	11	16	--	--	--	--	--	--
Hernando	1,175	214	58	155	105	63	48	32	60	28	10
Highlands	629	129	35	95	54	43	19	20	39	--	--
Hillsborough	6,408	831	644	956	534	269	242	235	302	86	63
Holmes	75	14	--	--	10	--	--	--	--	--	--
Indian River	1,108	183	98	147	94	79	35	33	108	19	--
Jackson	197	45	--	16	16	--	--	--	--	--	--
Jefferson	78	--	--	--	--	--	--	--	--	--	--
Lafayette	36	--	--	--	--	--	--	--	--	--	--
Lake	2,381	342	235	314	203	151	112	74	153	30	15
Lee	4,058	628	377	610	312	205	193	158	274	53	27
Leon	914	121	107	154	77	19	34	43	32	--	--
Levy	250	54	28	31	21	--	10	12	--	--	--
Liberty	18	--	--	--	--	--	--	--	--	--	--
Madison	63	--	--	10	--	--	--	--	--	--	--
Manatee	2,235	319	199	319	190	99	98	75	179	26	18
Marion	2,559	396	208	345	225	156	109	102	161	40	18
Martin	1,243	176	124	154	106	77	58	49	113	--	--
Miami-Dade	12,216	1,355	1,467	1,814	1,256	464	435	568	245	171	147
Monroe	449	64	62	47	37	18	35	14	35	--	--
Nassau	534	78	50	74	45	28	25	15	31	--	--
Okaloosa	936	163	58	122	78	48	37	38	81	11	12
Okeechobee	265	67	18	33	17	15	16	--	--	--	--
Orange	5,123	623	544	708	478	210	207	208	186	72	58
Osceola	1,532	185	174	236	152	56	54	76	58	11	14
Palm Beach	8,852	1,228	888	1,252	642	479	332	429	547	112	59
Pasco	3,113	541	251	409	283	149	143	122	196	44	22
Pinellas	6,283	991	591	919	538	351	279	241	389	96	28
Polk	4,102	600	403	597	359	182	168	170	284	61	39
Putnam	469	98	44	57	45	16	27	18	17	--	--
Santa Rosa	762	106	57	119	70	33	43	35	56	12	--
Sarasota	3,356	520	374	422	267	229	126	109	295	50	13
Seminole	2,033	296	204	300	167	101	91	66	76	26	27
St. Johns	1,414	221	134	205	102	72	56	48	90	18	11
St. Lucie	1,712	251	176	237	145	91	79	67	70	27	18
Sumter	1,193	209	165	153	82	62	37	47	59	13	--
Suwannee	282	44	23	46	31	12	15	11	15	--	--
Taylor	108	25	--	16	11	--	--	--	--	--	--
Union	195	33	37	11	17	--	25	12	--	--	--
Volusia	3,522	580	299	446	317	160	165	150	211	48	27
Wakulla	137	21	--	24	14	--	--	--	--	--	--
Walton	291	35	25	47	34	15	12	10	14	--	--
Washington	112	24	--	--	14	--	--	--	--	--	--

-- Counts for cells with <10 cases are suppressed

## Section 7: Cancer

Number of cancer deaths by county in Florida in 2015

	All cancers	Lung and bronchus	Prostate	Breast	Colorectal	Bladder	Head and neck	Non-Hodgkin's lymphoma	Melanoma	Ovary	Cervix
<b>Florida</b>	<b>43,438</b>	<b>11,663</b>	<b>2,143</b>	<b>2,816</b>	<b>3,634</b>	<b>1,226</b>	<b>1,122</b>	<b>1,516</b>	<b>717</b>	<b>895</b>	<b>283</b>
Alachua	443	100	19	32	46	--	21	17	--	13	--
Baker	45	15	--	--	--	--	--	--	--	--	--
Bay	239	71	--	16	21	--	--	--	--	--	--
Bradford	62	23	--	--	--	--	--	--	--	--	--
Brevard	1,687	499	75	91	125	44	31	54	29	19	--
Broward	3,340	750	179	270	340	98	81	116	44	53	28
Calhoun	39	10	--	--	--	--	--	--	--	--	--
Charlotte	634	199	33	36	50	13	20	14	--	--	--
Citrus	582	177	22	37	44	21	21	16	11	14	--
Clay	417	125	28	28	26	--	11	15	--	--	--
Collier	767	179	55	47	41	22	16	32	27	13	--
Columbia	179	70	--	--	15	--	--	--	--	--	--
Desoto	89	28	--	--	12	--	--	--	--	--	--
Dixie	58	21	--	--	--	--	--	--	--	--	--
Duval	1,660	462	68	111	122	39	55	62	27	45	10
Escambia	734	238	36	53	45	21	19	22	11	14	--
Flagler	294	89	12	18	32	--	--	--	--	--	--
Franklin	35	--	--	--	--	--	--	--	--	--	--
Gadsden	107	29	--	--	13	--	--	--	--	--	--
Gilchrist	56	18	--	--	--	--	--	--	--	--	--
Glades	33	13	--	--	--	--	--	--	--	--	--
Gulf	25	--	--	--	--	--	--	--	--	--	--
Hamilton	31	12	--	--	--	--	--	--	--	--	--
Hardee	40	--	--	--	--	--	--	--	--	--	--
Hendry	57	19	--	--	--	--	--	--	--	--	--
Hernando	559	176	17	19	45	22	10	18	11	13	--
Highlands	313	105	17	19	29	--	--	--	--	--	--
Hillsborough	2,302	581	92	130	208	67	58	86	20	57	14
Holmes	50	14	--	--	--	--	--	--	--	--	--
Indian River	463	118	23	30	46	12	11	18	10	14	--
Jackson	127	42	--	10	--	--	--	--	--	--	--
Jefferson	38	--	--	--	--	--	--	--	--	--	--
Lafayette	18	--	--	--	--	--	--	--	--	--	--
Lake	967	274	50	66	79	30	20	30	19	20	--
Lee	1,635	466	79	89	126	55	52	63	30	30	11
Leon	378	87	21	28	34	14	--	13	--	--	--
Levy	152	49	--	--	14	--	--	--	--	--	--
Liberty	11	--	--	--	--	--	--	--	--	--	--
Madison	46	12	--	--	--	--	--	--	--	--	--
Manatee	875	237	43	57	85	28	17	29	17	18	--
Marion	1,057	297	49	64	88	30	27	31	20	22	--
Martin	446	126	30	27	27	11	--	19	--	--	--
Miami-Dade	4,227	861	282	333	422	120	112	161	32	92	35
Monroe	174	44	13	10	13	--	--	--	--	--	--
Nassau	193	60	--	15	19	--	--	--	--	--	--
Okaloosa	414	138	21	23	28	11	12	13	--	--	--
Okeechobee	99	37	--	11	--	--	--	--	--	--	--
Orange	1,756	390	97	129	126	51	45	56	21	52	15
Osceola	449	112	27	27	35	11	11	15	--	--	--
Palm Beach	3,294	835	151	209	282	99	53	157	58	80	20
Pasco	1,337	402	51	77	120	44	35	37	28	31	10

-- Counts for cells with <10 cases are suppressed



## Section 7: Cancer

Number of cancer deaths by county in Florida in 2015 (continued)

	All cancers	Lung and bronchus	Prostate	Breast	Colorectal	Bladder	Head and neck	Non-Hodgkin's lymphoma	Melanoma	Ovary	Cervix
Pinellas	2,584	733	95	190	223	73	84	99	48	63	13
Polk	1,488	442	67	84	113	47	32	50	23	37	14
Putnam	230	78	14	16	20	--	--	--	--	--	--
Santa Rosa	293	94	11	20	17	--	11	10	--	--	--
Sarasota	1,319	362	61	65	102	25	29	45	30	27	--
Seminole	793	200	39	59	58	22	17	33	11	15	--
St. Johns	493	158	22	38	35	--	16	--	10	--	--
St. Lucie	745	210	34	54	67	23	22	28	10	12	--
Sumter	455	136	28	21	37	--	--	19	--	10	--
Suwannee	126	44	--	--	13	--	--	--	--	--	--
Taylor	56	26	--	--	--	--	--	--	--	--	--
Union	87	30	--	--	--	--	--	--	--	--	--
Volusia	1,501	414	84	82	104	45	44	47	36	29	12
Wakulla	69	21	--	--	--	--	--	--	--	--	--
Walton	125	49	--	--	11	--	--	--	--	--	--
Washington	41	16	--	--	--	--	--	--	--	--	--

-- Counts for cells with <10 cases are suppressed

