

COORDINATED CHRONIC DISEASE FACT SHEET CHARLESTON County, 2013



In the year 2013 the leading causes of death among South Carolinians were cancer, heart disease, chronic lower respiratory disease, stroke, accidents, Alzheimer’s disease, diabetes, nephritis, nephritic syndrome and nephrosis, influenza and pneumonia, and septicemia. This report focuses on the chronic conditions of the population of Charleston county, and is compared to the overall chronic conditions of the population of South Carolina as a whole.

The distribution of Charleston county’s population is similar to the state population. The largest portion (39%) of the population in Charleston county are between the ages of 18-44. There are more females (52%) than males (48%). Charleston county has a similar percentage of minority population (30%) as the state (29%).

	CHARLESTON COUNTY	STATE
Population size	372,800	4,774,840
Age distribution (%)		
<18	20.7	22.8
18-44	39.4	35.4
45-64	25.7	26.6
65-84	12.3	13.6
85+	1.8	1.6
Race (%)		
White	68.1	69.2
Black	29.5	28.5
Sex (%)		
Male	48.4	48.7
Female	51.6	51.3

In spite of the overall reports of good health given by the citizens of the Palmetto State, chronic conditions are still making an impact on the health of many South Carolinians. Through primary and secondary prevention we hope to reduce the risk factors that contribute to the major chronic diseases and leading causes of death among South Carolinians.

The chart below contains the risk factors that contribute to an increased risk of developing a chronic condition. These risk factors are related to the major causes of morbidity and mortality among South Carolinians. Some common behavioral risk factors that contribute to the leading causes of death are smoking, sedentary lifestyle, obesity, high cholesterol, and low consumption of fruits and vegetables. The prevalence of these risk factors from the 2013 South Carolina Behavioral Risk Factor Surveillance System (BRFSS) survey are listed in the table below for the Health Region.*

RISK FACTOR	Region*					State
	Total	Blacks	Whites	Males	Females	Total
Current smoking (%)	16.36	14.96	16.28	21.65	12.01	22.00
Sedentary lifestyle (%)	23.85	27.03	21.83	22.64	24.86	26.87
Overweight or Obese (%)	65.50	73.09	63.37	69.24	62.22	66.47
High Cholesterol (%)	45.50	43.06	47.14	48.79	42.73	42.58
Median daily servings of fruits	1.00	1.05	1.00	0.98	1.12	0.99
Median daily servings of vegetables	1.57	1.14	1.72	1.45	1.70	1.50

Some preventive measures such as immunization were included in the 2013 SC BRFSS. For persons age 65 and older in South Carolina:

35% have not received the flu shot in the past 12 months

30% have never had the pneumonia vaccination

Hospital/ED data in the following tables include ONLY those cases treated in SC hospitals. Cases treated in hospitals outside of SC are NOT included.

HYPERTENSION	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	39.2	NA	NA	NA	NA	38.4
Number of hospitalizations	318	225	83	130	188	5,334
Crude rate of hospitalizations (per 100,000)	85	204	33	72	98	112
Median age of hospitalized patients	58	54	69	57	58	59
Total cost of hospitalization (\$)	12,589,500	8,422,900	3,699,100	5,808,400	6,781,100	200,069,800
Average length of hospital stay (days)	4	5	4	5	4	5
Number of ER visits	988	678	285	399	589	15,651
Crude rate of ER visits (per 100,000)	265	616	112	221	306	328
Median age of ER patients	54	52	62	50	58	54
Total cost of ER visits (\$)	2,774,300	1,826,500	882,000	1,012,800	1,761,500	49,710,700
Number of deaths	25	17	8	11	14	418
Age-Adjusted Death rate (per 100,000)	6.0	15.6	2.6	6.3	5.6	7.9

HEART DISEASE	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	4.7	NA	NA	NA	NA	4.9
Number of hospitalizations	3,380	1,261	2,034	1,753	1,626	50,827
Crude rate of hospitalizations (per 100,000)	907	1,145	801	971	846	1,064
Median age of hospitalized patients	69	64	72	66	73	68
Total cost of hospitalization (\$)	182,202,200	61,095,900	115,704,000	103,547,700	78,618,100	3,099,389,600
Average length of hospital stay (days)	5	5	4	5	5	5
Number of ER visits	1,300	587	681	635	664	19,962
Crude rate of ER visits (per 100,000)	349	533	268	352	345	418
Median age of ER patients	63	60	66	62	63	64
Total cost of ER visits (\$)	9,615,400	3,967,100	5,429,200	5,174,500	4,436,500	168,582,900
Number of deaths	592	211	374	297	295	9,604
Age-Adjusted Death rate (per 100,000)	145.4	201.1	123.9	178.3	120.4	179.2

STROKE	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	4.8	NA	NA	NA	NA	3.8
Number of hospitalizations	973	404	535	438	535	14,943
Crude rate of hospitalizations (per 100,000)	261	367	211	243	278	313
Median age of hospitalized patients	69	65	73	67	72	69
Total cost of hospitalization (\$)	43,964,400	19,085,000	23,662,600	19,748,700	24,215,700	690,018,200
Average length of hospital stay (days)	5	5	4	5	5	5
Number of ER visits	366	120	232	162	204	5,283
Crude rate of ER visits (per 100,000)	98	109	91	90	106	111
Median age of ER patients	70	61	73	66	71	66
Total cost of ER visits (\$)	3,823,000	1,213,100	2,450,500	1,650,600	2,172,400	53,018,800
Number of deaths	176	62	113	67	109	2,488
Age-Adjusted Death rate (per 100,000)	43.8	58.6	38.2	42.6	44.4	47.2

CHRONIC LOWER RESPIRATORY DISEASE	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	935	357	539	344	591	15,659
Crude rate of hospitalizations (per 100,000)	251	324	212	190	307	328
Median age of hospitalized patients	61	51	68	59	63	63
Total cost of hospitalization (\$)	24,192,800	7,123,200	16,373,000	7,893,200	16,299,600	439,323,600
Average length of hospital stay (days)	4	3	4	3	4	4
Number of ER visits	3,034	1,958	968	1,378	1,656	49,050
Crude rate of ER visits (per 100,000)	814	1,778	381	763	862	1,027
Median age of ER patients	33	28	47	25	40	40
Total cost of ER visits (\$)	8,024,500	4,522,100	3,261,700	3,258,900	4,765,600	134,527,100
Number of deaths	146	20	126	58	88	2,751
Age-Adjusted Death rate (per 100,000)	37.0	19.1	43.7	37.6	37.4	50.7

DIABETES	County					State
	Total	Blacks	Whites	Males	Females	Total
Prevalence (%)*	14.0	NA	NA	NA	NA	12.5
Number of hospitalizations	644	380	239	325	319	9,764
Crude rate of hospitalizations (per 100,000)	173	345	94	180	166	204
Median age of hospitalized patients	52	52	52	53	50	51
Total cost of hospitalization (\$)	19,806,500	12,267,500	6,828,800	10,489,000	9,317,500	321,377,000
Average length of hospital stay (days)	4	4	4	4	4	5
Number of ER visits	1,067	779	264	558	509	13,909
Crude rate of ER visits (per 100,000)	286	707	104	309	265	291
Median age of ER patients	52	52	53	52	53	52
Total cost of ER visits (\$)	3,633,100	2,512,800	1,003,200	1,876,100	1,757,000	46,056,100
Number of deaths	79	52	27	47	32	1,239
Age-Adjusted Death rate (per 100,000)	19.5	48.7	9.4	27.3	13.8	22.5

ALL CANCERS	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	1,233	381	801	651	582	14,136
Crude rate of hospitalizations (per 100,000)	331	346	315	361	303	296
Median age of hospitalized patients	64	62	65	64	63	64
Total cost of hospitalization (\$)	77,081,900	24,163,000	49,956,900	42,511,600	34,570,300	963,427,600
Average length of hospital stay (days)	6	7	6	6	6	7
Number of deaths	646	221	420	352	294	9,700
Age-Adjusted Death rate (per 100,000)	157.1	197.0	143.3	200.9	127.4	173.2

COLORECTAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	146	46	93	65	81	1,796
Crude rate of hospitalizations (per 100,000)	39	42	37	36	42	38
Median age of hospitalized patients	66	64	68	65	68	65
Total cost of hospitalization (\$)	8,614,800	3,055,000	5,264,000	4,892,900	3,721,900	140,452,900
Average length of hospital stay (days)	6	8	6	8	5	8
Number of deaths	47	18	29	30	17	821
Age-Adjusted Death rate (per 100,000)	12.0	16.3	10.6	17.5	7.7	14.9

FEMALE BREAST CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	57	18	36	0	57	923
Crude rate of hospitalizations (per 100,000)	30	30	28	0	30	38
Median age of hospitalized patients	55	57	54	0	55	59
Total cost of hospitalization (\$)	4,359,800	975,800	3,206,100	0	4,359,800	50,631,800
Average length of hospital stay (days)	3	4	3	0	3	3
Number of deaths	36	20	16	0	36	633
Age-Adjusted Death rate (per 100,000)	16.7	32.6	10.2	0	16.7	21.1

CERVICAL CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	15	9	5	0	15	142
Crude rate of hospitalizations (per 100,000)	8	15	4	0	8	6
Median age of hospitalized patients	59	59	50	0	59	55
Total cost of hospitalization (\$)	508,100	216,600	177,000	0	508,100	6,269,800
Average length of hospital stay (days)	3	3	2	0	3	4
Number of deaths	4	3	1	0	4	74
Age-Adjusted Death rate (per 100,000)	1.6	4.2	0.5	0	1.6	2.7

LUNG CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	123	40	79	61	62	2,041
Crude rate of hospitalizations (per 100,000)	33	36	31	34	32	43
Median age of hospitalized patients	68	65	69	69	67	67
Total cost of hospitalization (\$)	8,162,100	2,764,900	5,218,600	4,274,500	3,887,600	145,739,900
Average length of hospital stay (days)	7	8	6	7	7	7
Number of deaths	170	52	117	85	85	2,825
Age-Adjusted Death rate (per 100,000)	40.4	42.7	39.4	47.3	35.4	49.2

PROSTATE CANCER	County					State
	Total	Blacks	Whites	Males	Females	Total
Number of hospitalizations	135	42	92	135	0	970
Crude rate of hospitalizations (per 100,000)	75	83	73	75	0	42
Median age of hospitalized patients	64	62	65	64	0	63
Total cost of hospitalization (\$)	5,592,500	1,973,400	3,592,900	5,592,500	0	46,328,200
Average length of hospital stay (days)	2	3	2	2	0	3
Number of deaths	30	12	18	30	0	457
Age-Adjusted Death rate (per 100,000)	19.0	31.7	15.5	19.0	0	21.2

*DHEC Health Region Low Country: Allendale, Bamberg, Beaufort, Berkeley, Calhoun, Charleston, Colleton, Dorchester, Hampton, Jasper, Orangeburg.

Note: Generated Totals may include 'Other' race
BRFSS, mortality, and population data source: Division of Biostatistics

For more information about

Chronic diseases in South Carolina contact:
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Hospital discharge and ER visits, contact:

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For more details, please view the Technical Document below
<http://www.scdhec.gov/Health/docs/EpiTechNotes.pdf>

Citation Format:
State of South Carolina, Department of Health and
Environmental Control, Bureau of Community Health and
Chronic Disease Prevention, County Chronic Disease Fact Sheet
November 2014
<http://www.scdhec.gov/Health/SCPublicHealthStatisticsMaps/County-SpecificEpidemiologicalData/>

