Louisiana Cancer Facts & Figures, Colon and Rectal Cancer

Louisiana Tumor Registry

July, 2017



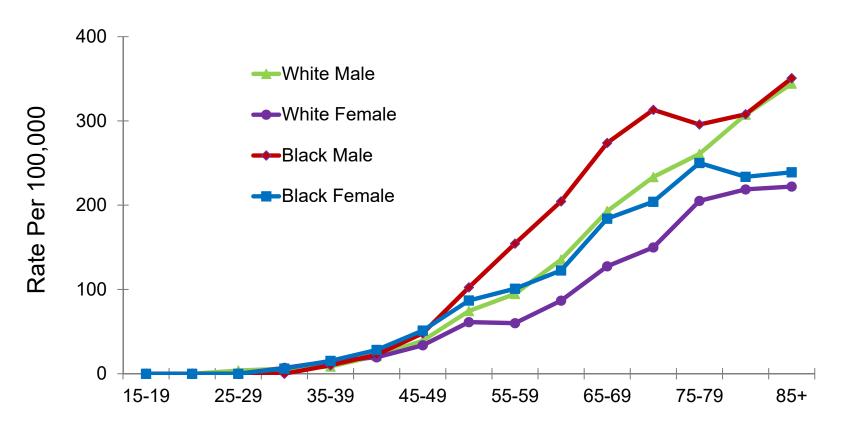
Colon and Rectal Cancer

- Colon and rectal cancer was the 4th most common cancer and the 2nd leading cause of cancer death in Louisiana from 2010 to 2014.¹
- Between 2010 and 2014, the average annual incidence rate of colon and rectal cancer in Louisiana was the 3rd highest and the mortality rate was the also 3rd highest in the U.S.¹
- About 2,150 new colon and rectal cancers are expected to be diagnosed and about 830 patients are expected to die of colon and Rectal Cancer in Louisiana in 2017 ².

- 1. Data source: NCI state cancer profile.
- 2. Data source: American Cancer Society, Cancer Facts & Figures 2017.



Colon and Rectal Cancer: Age-Specific Incidence Rates[#], Louisiana, 2010-2014

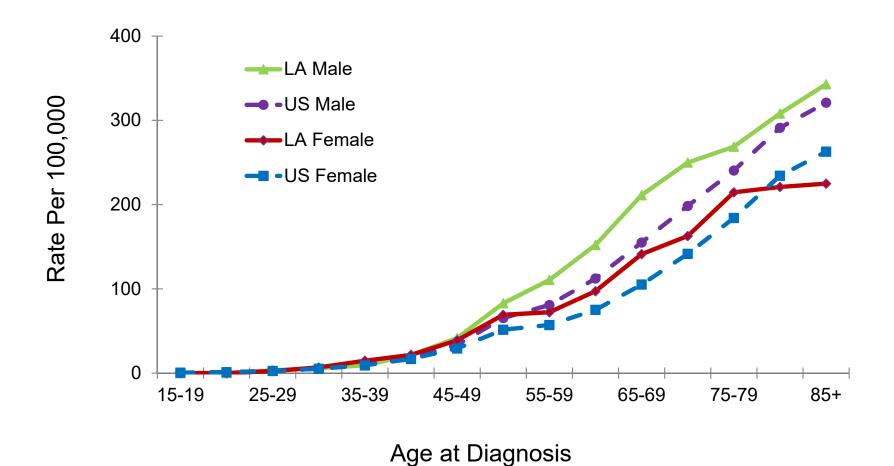


Age at Diagnosis

#Invasive cases only.



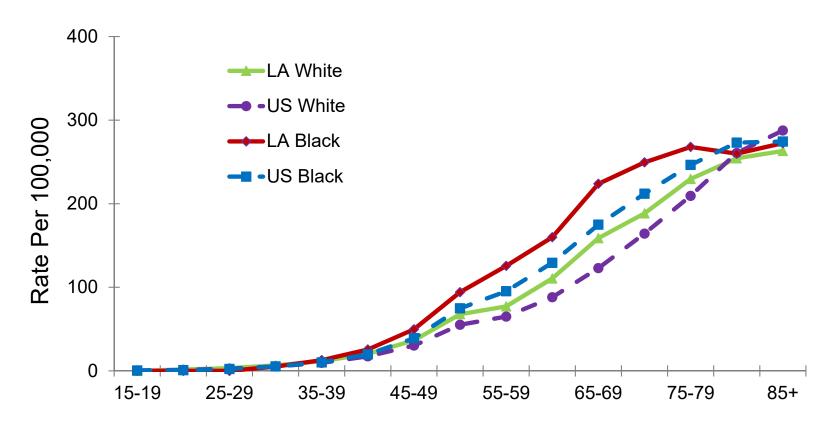
Colon and Rectal Cancer: Age-Specific Incidence Rates[#] by Gender, 2010-2014



#Invasive cases only.
U.S. data source:18 SEER registries.



Colon and Rectal Cancer: Age-Specific Incidence Rates[#] by Race, 2010-2014

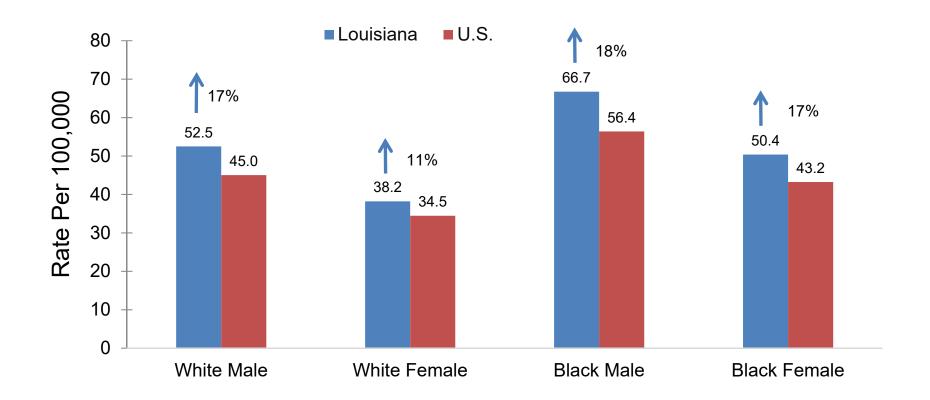


Age at Diagnosis

#Invasive cases only.
U.S. data source:18 SEER registries.



Colon and Rectal Cancer: Incidence Rates^{#,1,2,}, 2010-2014



Invasive cases only.

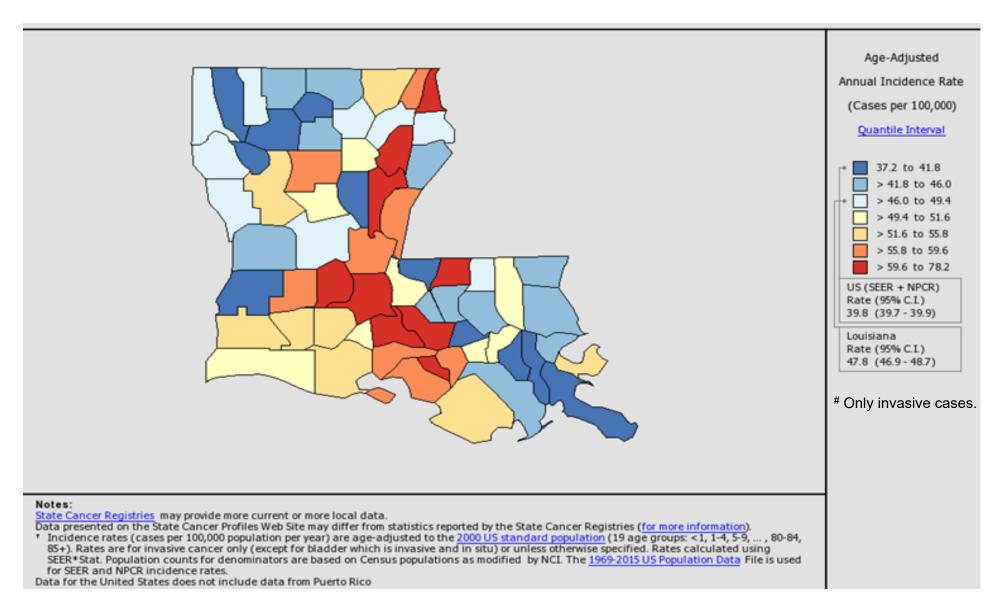
↓↑Rate of Louisiana is significantly different from that of the U.S.



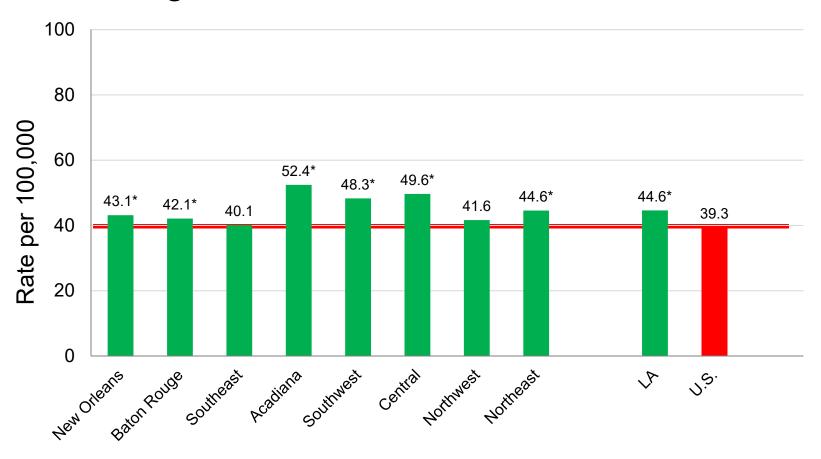
¹ Age-adjusted to the 2000 U.S. standard population.

² U.S. Incidence data source:18 SEER registries.

Incidence Rates[#] of Colon and Rectal Cancer in the U.S., All Races, Both Sexes, 2010-2014



Colon and Rectal Cancer Incidence^{#,1,2,} by Region³: Louisiana, Whites, 2010-2014



[#] Invasive cases only.



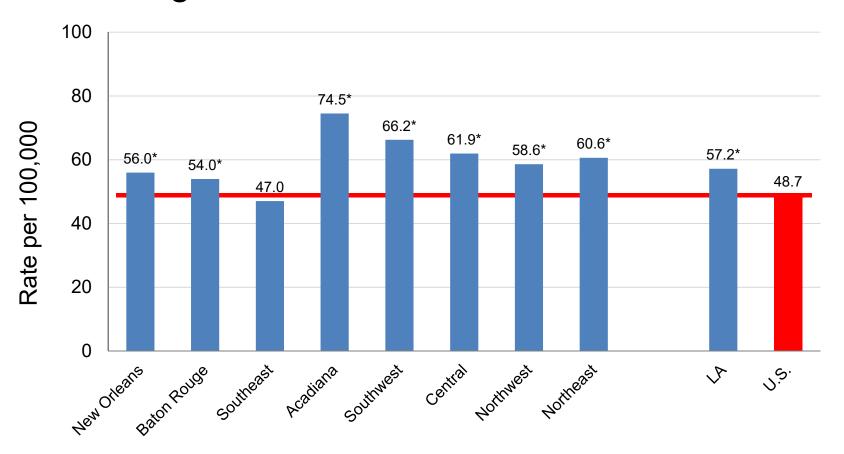
¹ Age-adjusted to the 2000 U.S. standard population.

² Data source for U.S. was the 18 SEER registries.

³ See Appendix A.

^{*} Incidence rate of regions/Louisiana is significantly different from that of U.S.

Colon and Rectal Cancer Incidence^{#,1,2,} by Region³: Louisiana, Blacks, 2010-2014



[#] Invasive cases only.



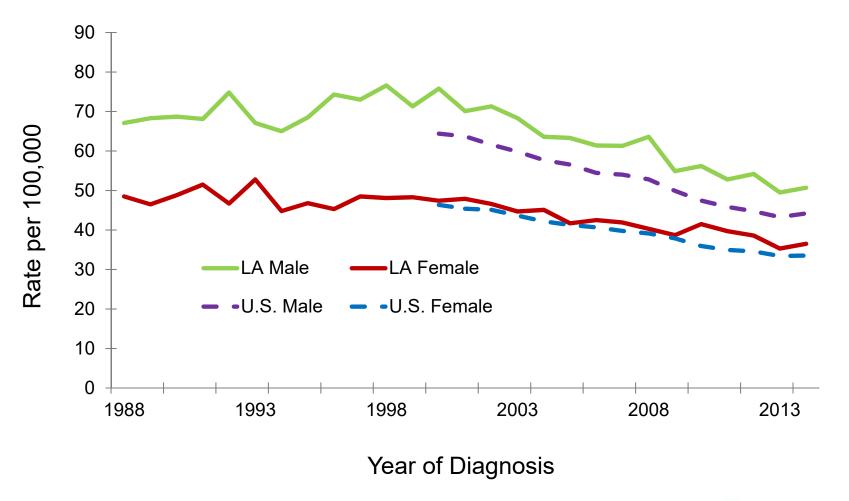
¹ Age-adjusted to the 2000 U.S. standard population.

² Data source for U.S. was the 18 SEER registries.

³ See Appendix A.

^{*} Incidence rate of regions/Louisiana is significantly different from that of U.S.

Colon and Rectal Cancer: Trends of Incidence Rates^{#,1,2,}, Whites,1988-2014



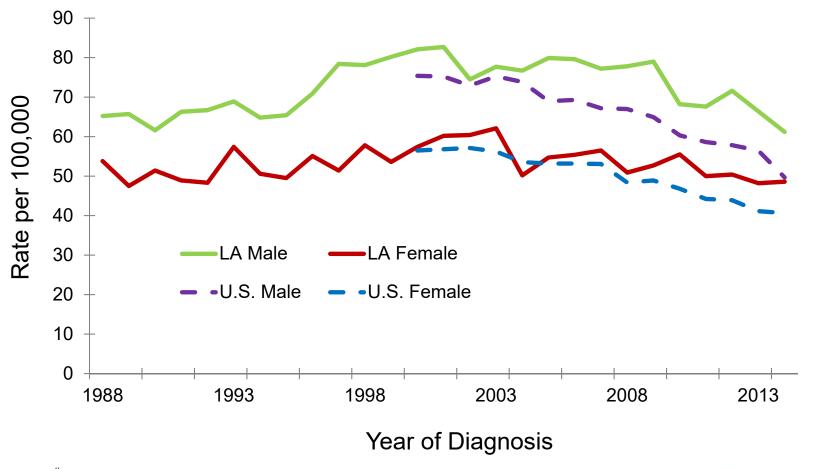
[#] Invasive cases only.



¹ Age-adjusted to the 2000 U.S. standard population.

² U.S. data source: 18 SEER registries.

Colon and Rectal Cancer: Trend of Incidence Rates^{#,1,2}, Blacks 1988-2014



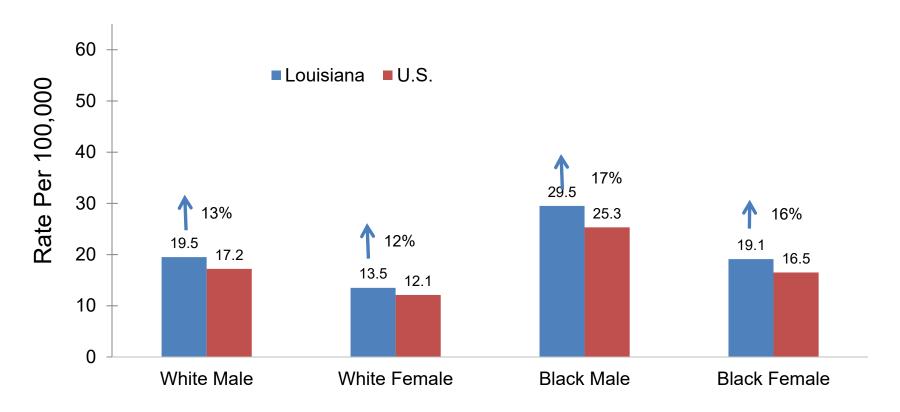
[#] Invasive cases only.



¹ Age-adjusted to the 2000 U.S. standard population.

² U.S. data source: 18 SEER registries.

Colon and Rectal Cancer: Mortality Rates¹ Louisiana vs. U.S.², 2010-2014

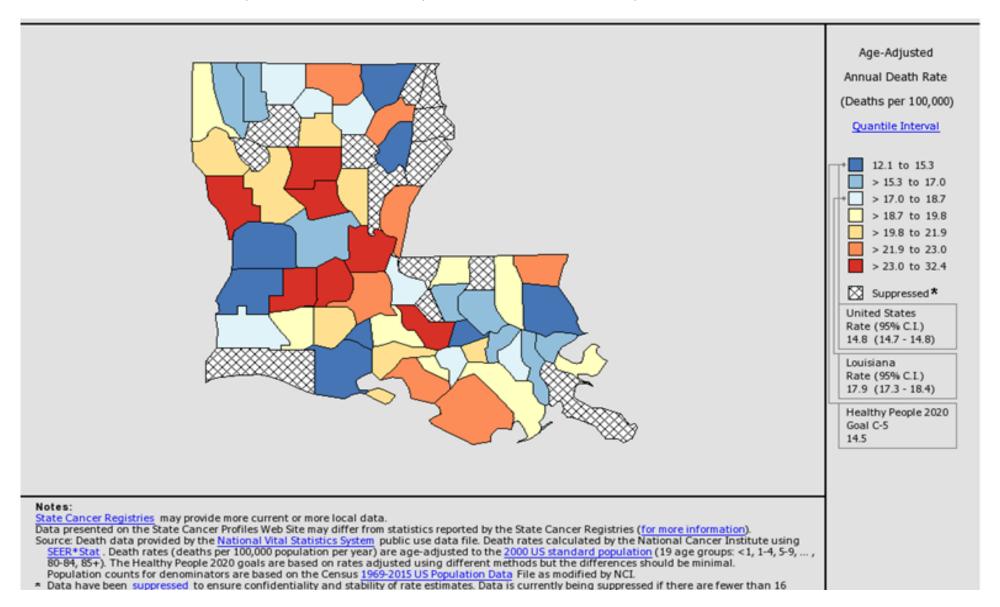


¹ Age-adjusted to the 2000 U.S. standard population.

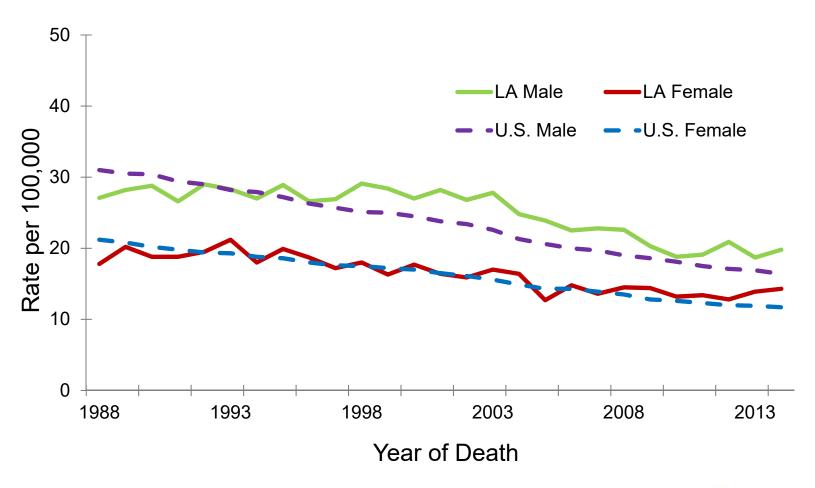


² Mortality data source was National Center of Health Statistics (NCHS). ↓↑Rate of Louisiana is significantly different from that of the U.S.

Mortality Rates of Colon and Rectal Cancer in the U.S., All Races, Both Sexes, 2010-2014



Colon and Rectal Cancer: Trends of Mortality Rates^{1,2}, Whites, 1988-2014

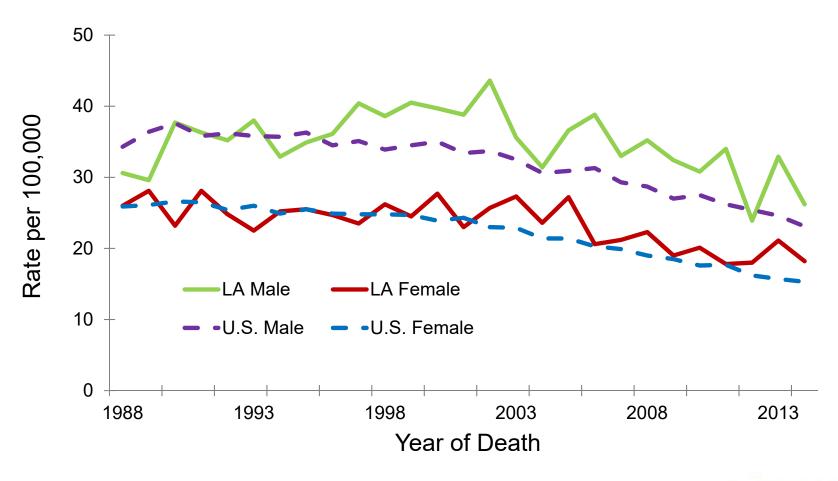


¹ Age-adjusted to the 2000 U.S. standard population.



² Data source: National Center of Health Statistics (NCHS).

Colon and Rectal Cancer: Trends of Mortality Rates^{1,2}, Blacks,1988-2014

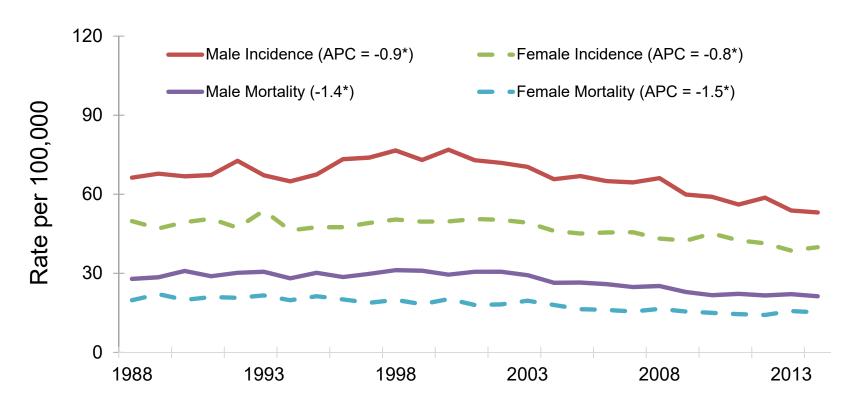


¹ Age-adjusted to the 2000 U.S. standard population.



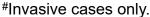
² Data source: National Center of Health Statistics (NCHS).

Colon and Rectal Cancer: Louisiana 1988-2014: Trends of Incidence# and Mortality Rates by Gender



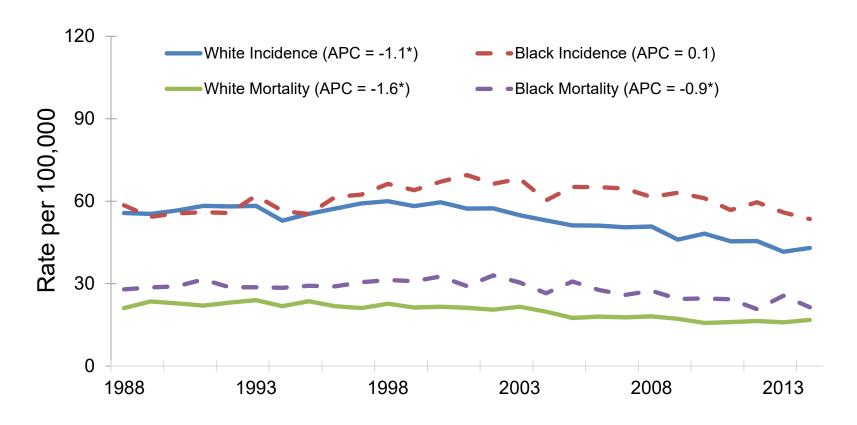
Year of Diagnosis/Death

Annual average percent change (APC) were calculated using weighted least squares method. * APC significantly different from zero.





Colon and Rectal Cancer: Louisiana 1988-2014 Trends of Incidence# and Mortality Rates by Race



Year of Diagnosis/Death

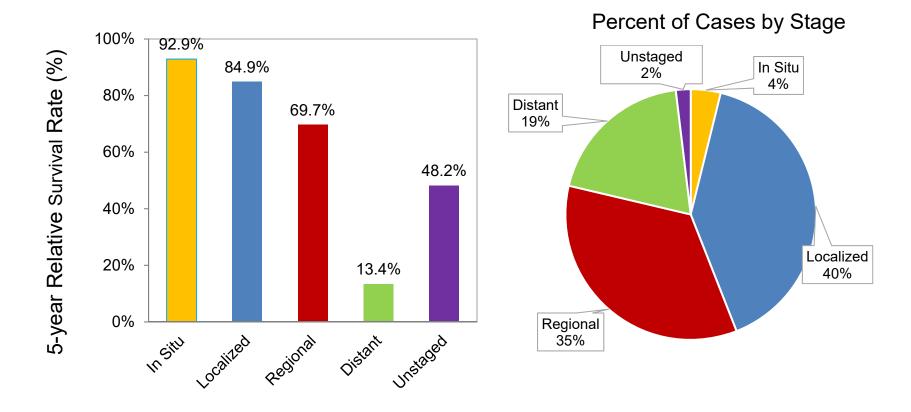
Annual average percent change (APC) were calculated using weighted least squares method.



^{*} APC significantly different from zero.

[#] Invasive cases only.

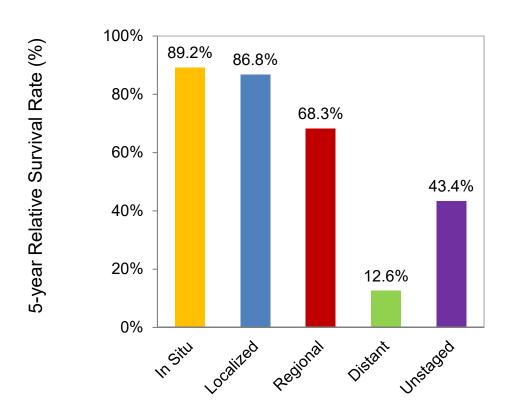
Colon and Rectal Cancer[#]: Louisiana 5-Year Relative Survival by Stage¹, White Males, 2007-2013



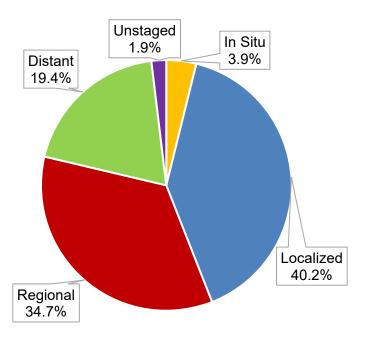


¹ The stage distribution is based on Summary Stage 2000.

Colon and Rectal Cancer[#]: Louisiana 5-Year Relative Survival by Stage¹, White Females, 2007-2013



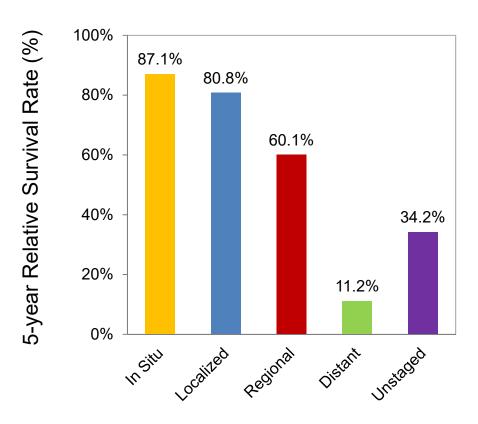
Percent of Cases by Stage



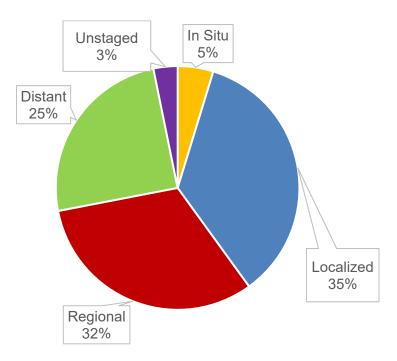


¹ The stage distribution is based on Summary Stage 2000.

Colon and Rectal Cancer[#]: Louisiana 5-Year Relative Survival by Stage¹, Black Males, 2007-2013



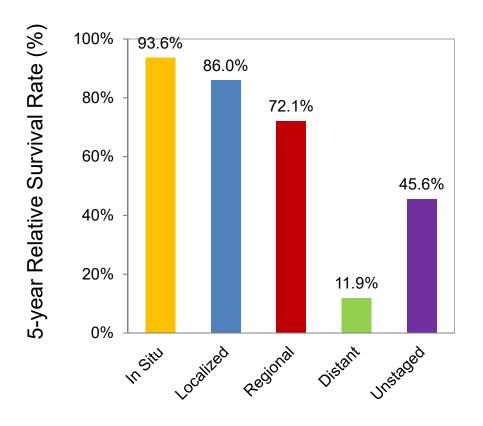
Percent of Cases by Stage



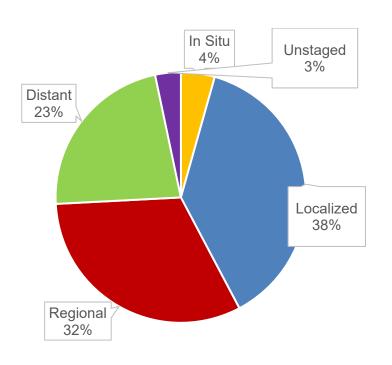


¹ The stage distribution is based on Summary Stage 2000.

Colon and Rectal Cancer[#]: Louisiana 5-Year Relative Survival by Stage¹, Black Females, 2007-2013



Percent of Cases by Stage





¹ The stage distribution is based on Summary Stage 2000.

Appendix A. Regions of the Louisiana Tumor Registry

Regional Registry	Beginning Date of the Registry	Average Annual Population, 2010-2014	Parishes Covered
Region 1 - New Orleans	1974	21,864	Jefferson, Orleans, St. Bernard
Region 2 – Baton Rouge	1983	23,410	Ascension, Assumption, East Baton Rouge, East Feliciana, Iberville, Livingston, Pointe Coupée, St. Helena, Tangipahoa, West Baton Rouge, West Feliciana
Region 3 – Southeast Louisiana	1983	17,036	Lafourche, Plaquemines, St. Charles, St. James, St. John, St. Tammany, Terrebonne, Washington
Region 4 – Acadiana	1983	17,032	Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, Vermilion
Region 5 – Southwest Louisiana	1983	7,698	Allen, Beauregard, Calcasieu, Cameron, Jefferson Davis
Region 6 – Central Louisiana	1988	8,283	Avoyelles, Catahoula, Concordia, Grant, La Salle, Rapides, Vernon, Winn
Region 7 – Northwest Louisiana	1988	14,817	Bienville, Bossier, Caddo, Claiborne, De Soto, Natchitoches, Red River, Sabine, Webster
Region 8 – Northeast Louisiana	1988	9,061	Caldwell, East Carroll, Franklin, Jackson, Lincoln, Madison, Morehouse, Ouachita, Richland, Tensas, Union, West Carroll
Entire State	1988	119,201	

Source: U.S. Bureau of Census and National Cancer Institute, April 2017.



Data Sources

Surveillance, **Epidemiology**, and **End Results** (**SEER**) **Program** (**www.seer.cancer.gov**) SEER*Stat Databases, National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2017, based on the November 2016 submission.

For Incidence:

 Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2016 Sub (2000-2014) <Katrina/Rita Population Adjustment>

For Mortality:

mortality – All COD, Aggregated With State, Total U.S. (1969-2014)
 <Katrina/Rita Population Adjustment>>

For Survival:

 Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2015 Sub (1973-2013 varying)



Data Sources

USCS:

 U.S. Cancer Statistics Working Group. United States Cancer Statistics: 1999-2014 Incidence and Mortality Web-based Report. Atlanta: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; 2017. Available at: www.cdc.gov/uscs.

Cancer Facts & Figures:

American Cancer Society. Cancer Facts & Figures 2017. Atlanta:
 American Cancer Society; 2017.



Data Sources

NCI State profiles

- Incidence Data Sources:
 - Incidence data are provided by the National Program of Cancer Registries External Web Site Policy Cancer Surveillance System (NPCR-CSS), Centers for Disease Control and Prevention and by the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program External Web Site Policy.
 - Population counts for denominators are based on Census populations as modified by NCI.
 - Rates are calculated using SEER*Stat External Web Site Policy.

Mortality Data Sources:

- Mortality data are provided by the National Vital Statistics System External Web Site
 Policy at the National Center for Health Statistics of the Centers for Disease Control and
 Prevention.
- Population counts for denominators are based on Census populations as modified by NCI..
- Rates are calculated using SEER*Stat External Web Site Policy.
- Trends are determined by using Joinpoint External Web Site Policy analysis of available historical data and reporting the last segment as the most recent trend.



Acknowledgements

- Hospital cancer registries (http://louisianatumorregistry.lsuhsc.edu/)
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- Physicians and staff members in:
 - Medical records offices
 - Pathology laboratories
 - Physician offices and clinics
 - Hospice programs and nursing homes
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- Louisiana Cancer and Lung Trust Fund Board
- Coroners' offices



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- Louisiana Health Care Services Division



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