

Louisiana Cancer Facts & Figures, Pancreatic Cancer

Louisiana Tumor Registry

September, 2017

Pancreatic Cancer*

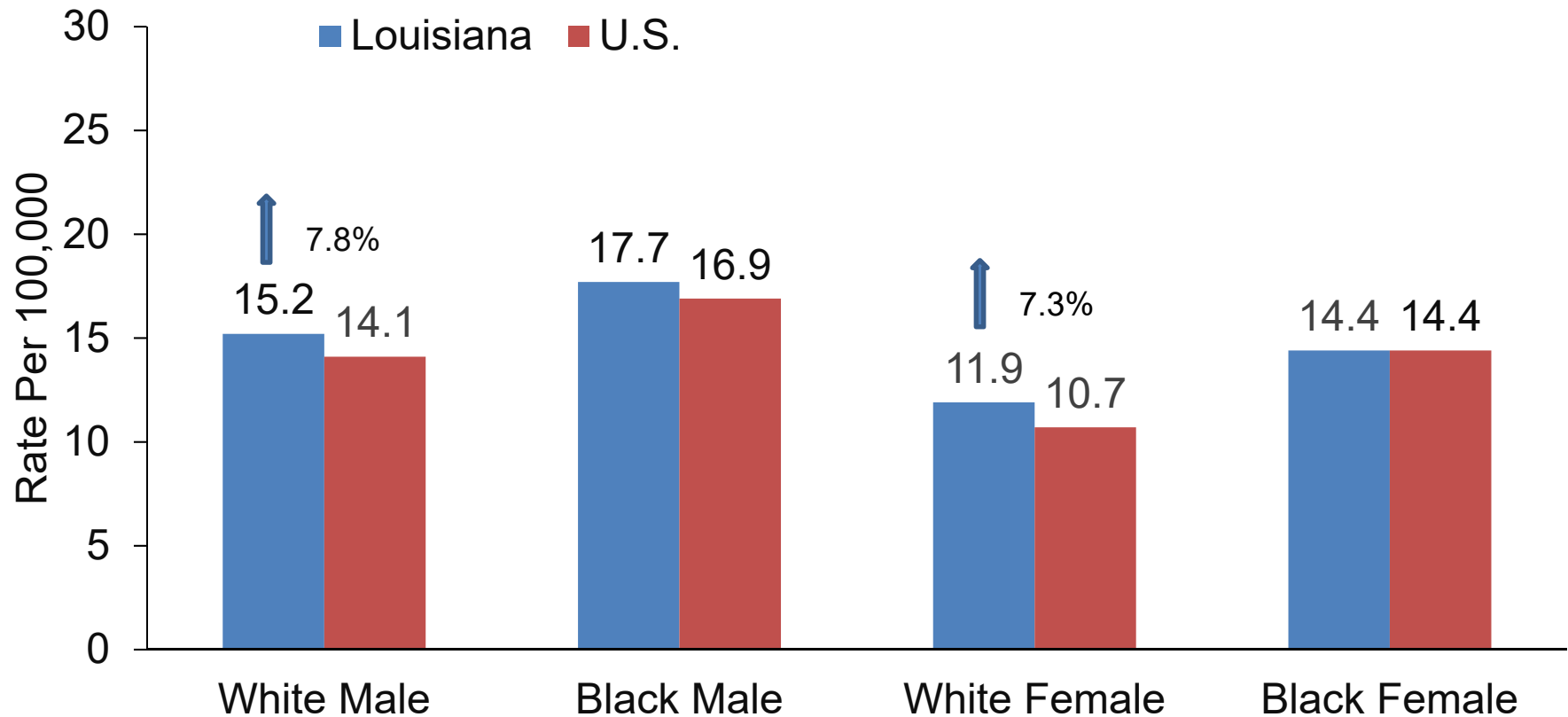
- Pancreatic cancer was the 10th most commonly diagnosed cancer in Louisiana, and 12th in the U.S. ¹
- It was the 5th leading cause of cancer death in both Louisiana and the U.S.¹
- About 820 new Pancreatic cancer cases are expected to be diagnosed and about 700 persons are expected to die of this cancer in Louisiana in 2017.²

* ICD_O_3/WHO 2008 code:C250-C259; excluding ICD-O-3 histology (type): 9050-9055, 9140, 9590-9992

¹Data source: [United States Cancer Statistics](#)

²Data source: [American Cancer Society, Cancer Facts & Figures 2017](#)

Pancreatic Cancer: Incidence Rates^{#,1} Louisiana vs. U.S.,² 2010-2014



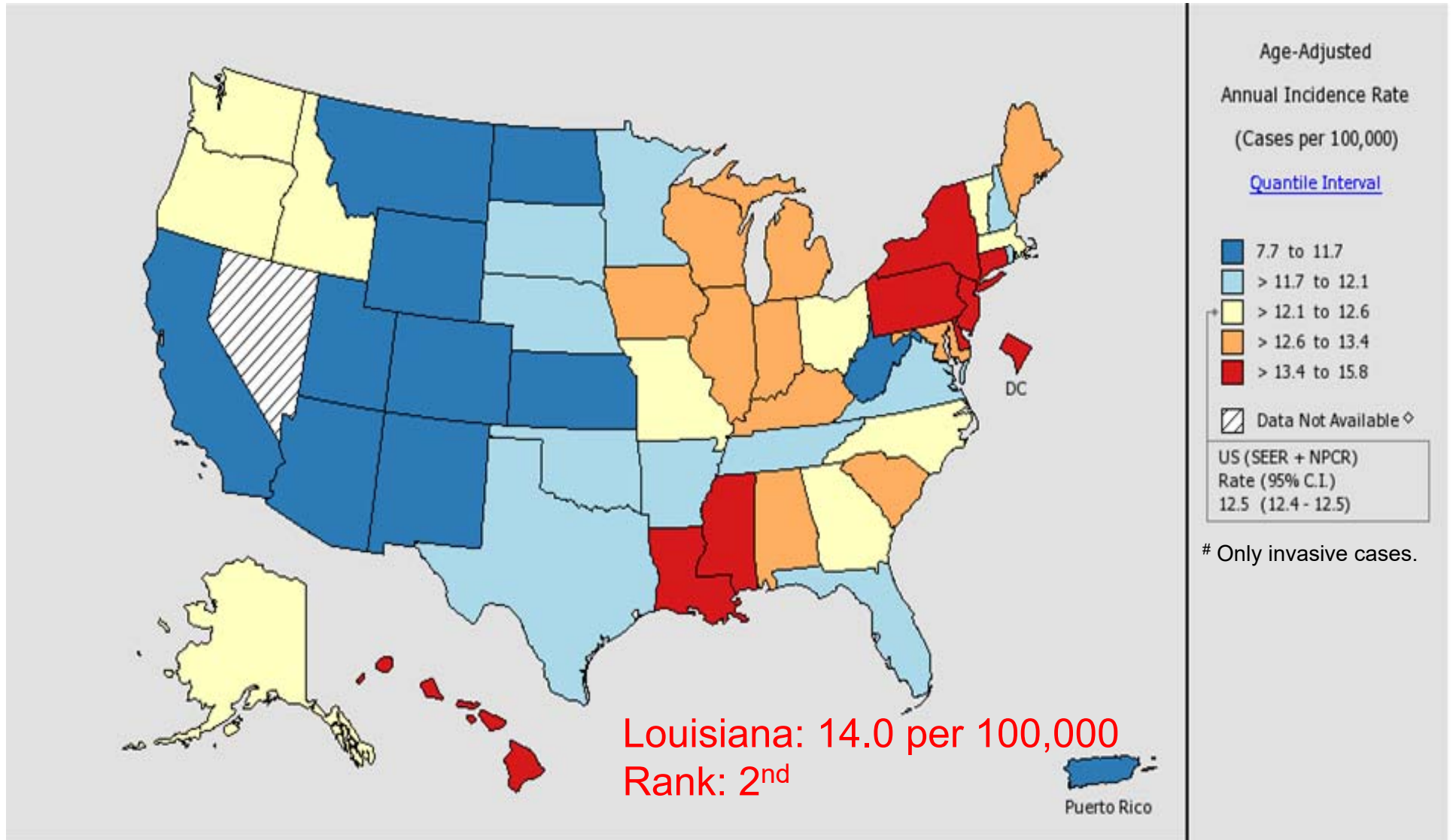
Only invasive cases.

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

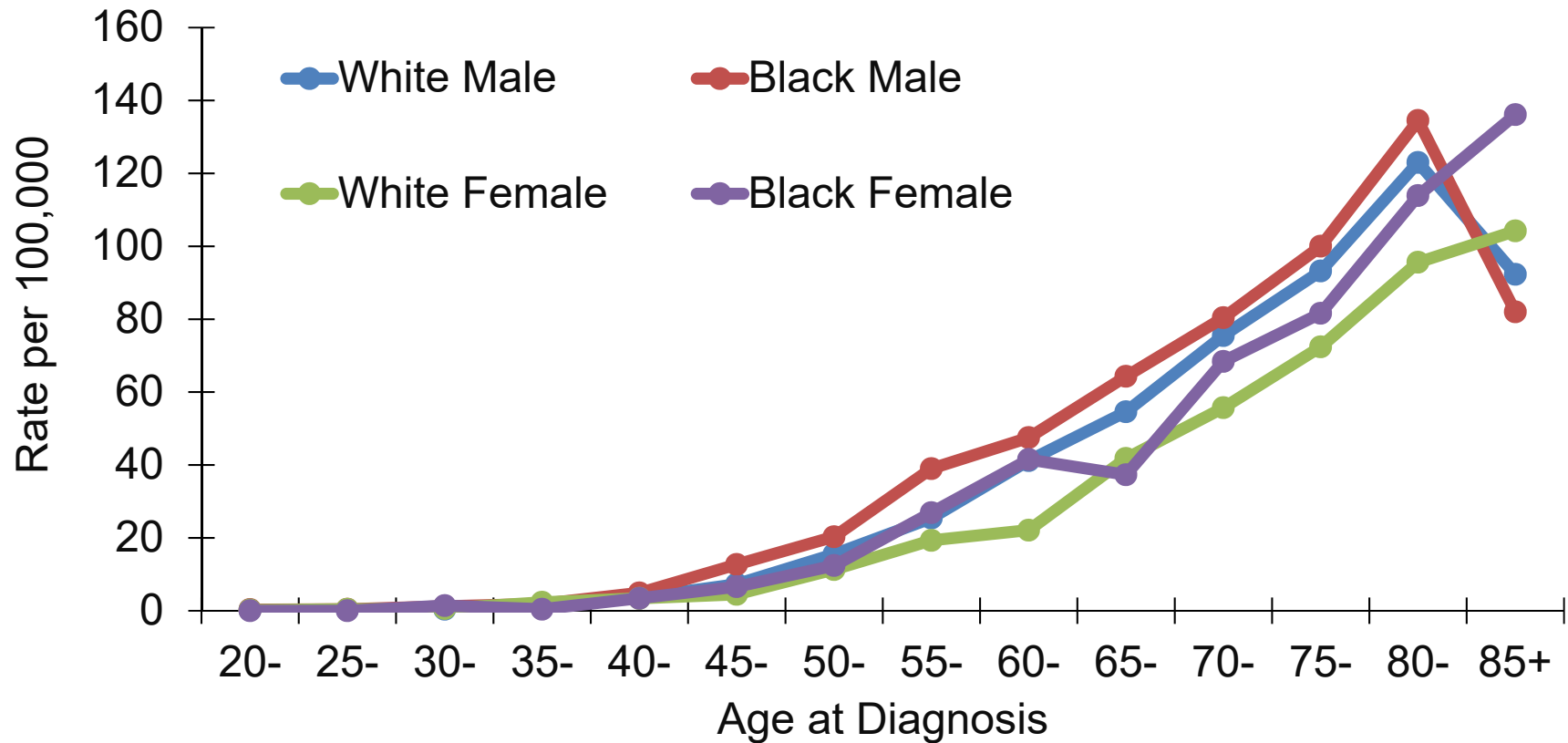
² Incidence data source: 18 SEER registries.

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

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

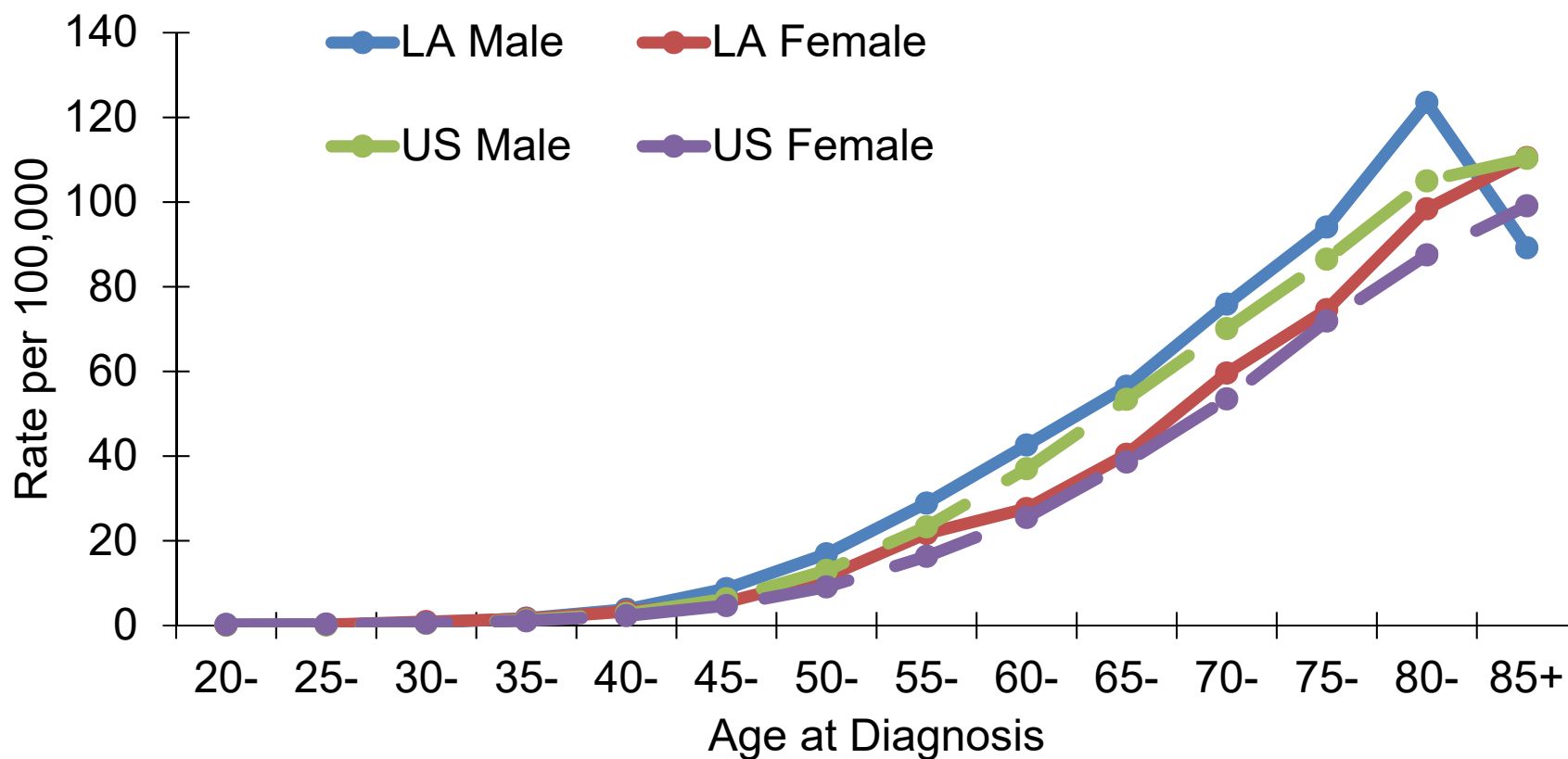


Pancreatic Cancer: Age-Specific Incidence Rates# Louisiana by Race and Gender, 2010-2014



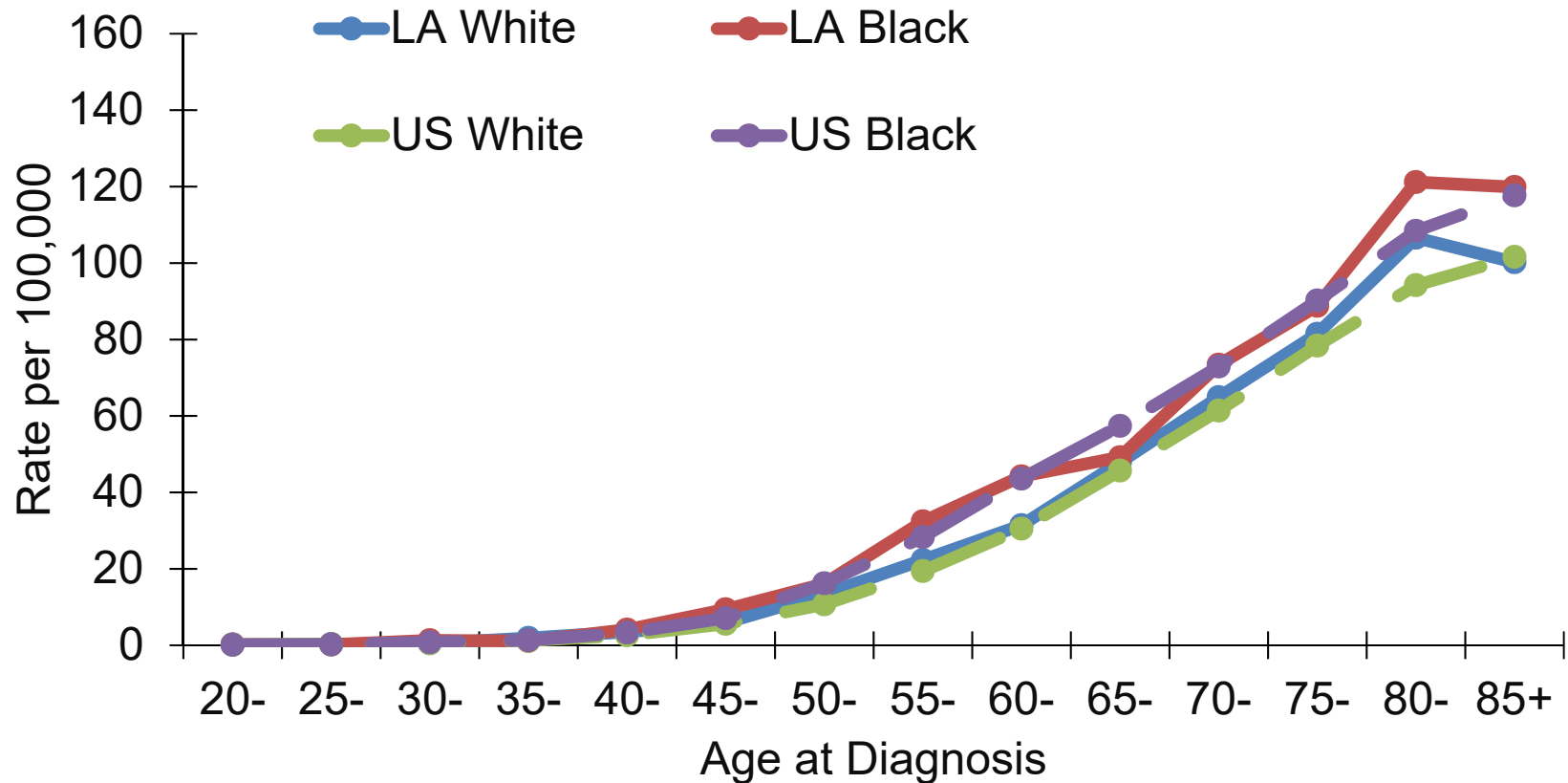
Only invasive cases.

Pancreatic Cancer : Age-Specific Incidence Rates# by Gender, 2010-2014



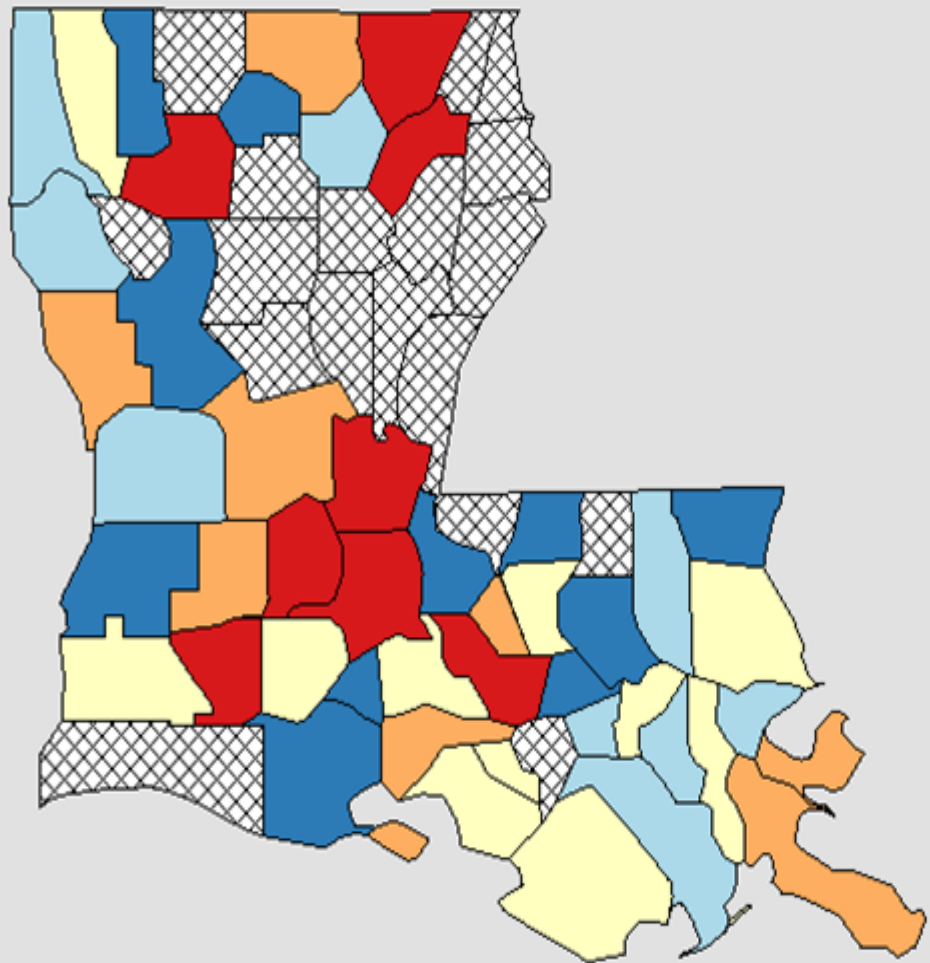
Only invasive cases.
 U.S. data source: 18 SEER registries.

Pancreatic Cancer : Age-Specific Incidence Rates# by Race, 2010-2014



Only invasive cases.
U.S. data source: 18 SEER registries.

Incidence Rates # of Pancreatic Cancer in Louisiana, All Races, Both Sexes, 2010-2014



Age-Adjusted
Annual Incidence Rate
(Cases per 100,000)

[Quantile Interval](#)

- 9.7 to 13.4
- > 13.4 to 13.8
- > 13.8 to 14.7
- > 14.7 to 16.4
- > 16.4 to 21.3

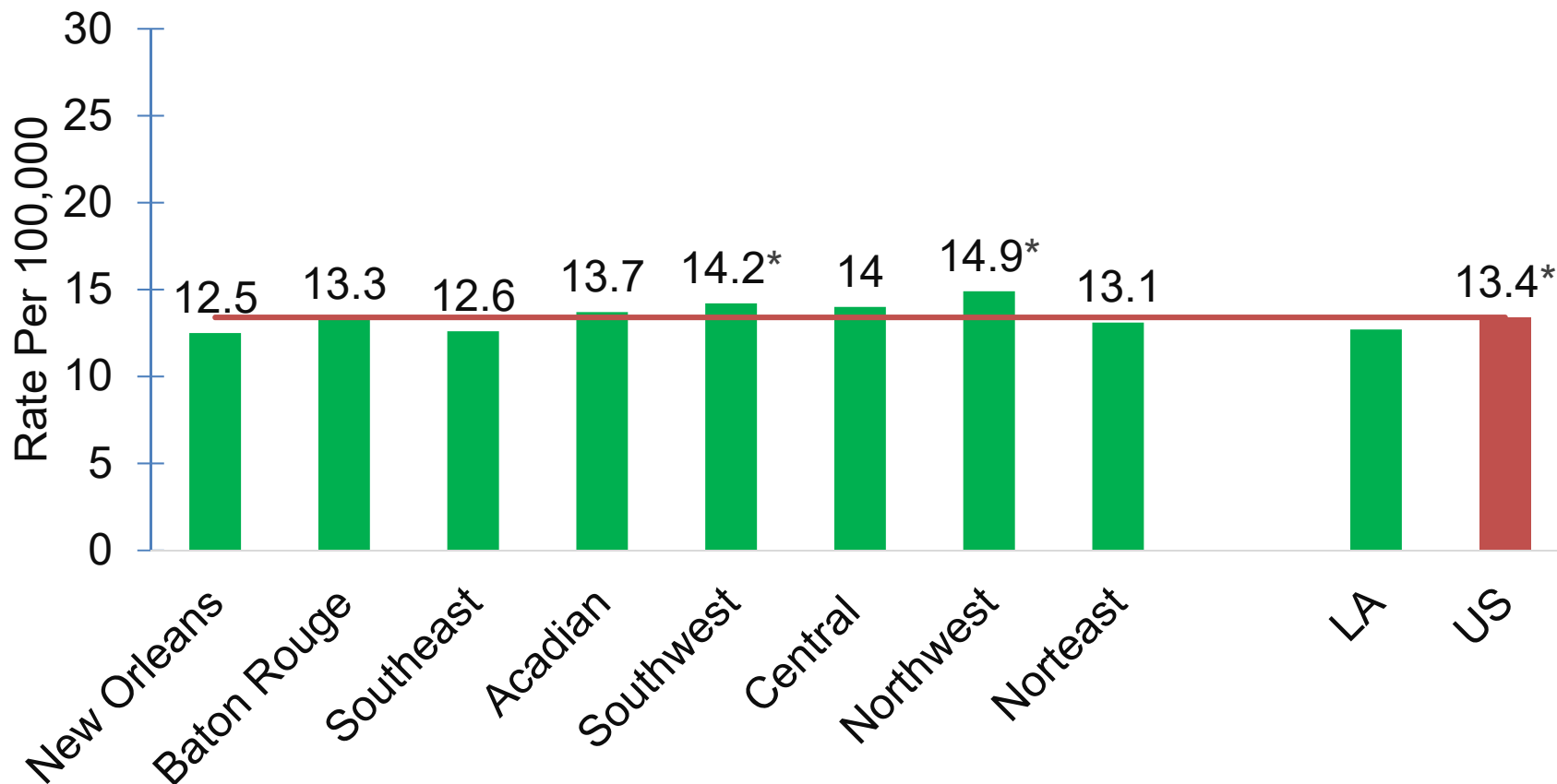
Suppressed * / **

US (SEER + NPCR)
Rate (95% C.I.)
12.5 (12.4 - 12.5)

Louisiana
Rate (95% C.I.)
14.0 (13.6 - 14.5)

Only invasive cases.

Pancreatic Cancer Incidence Rates^{#,1,2} by Region³: Louisiana, Whites, 2010-2014



Only invasive cases.

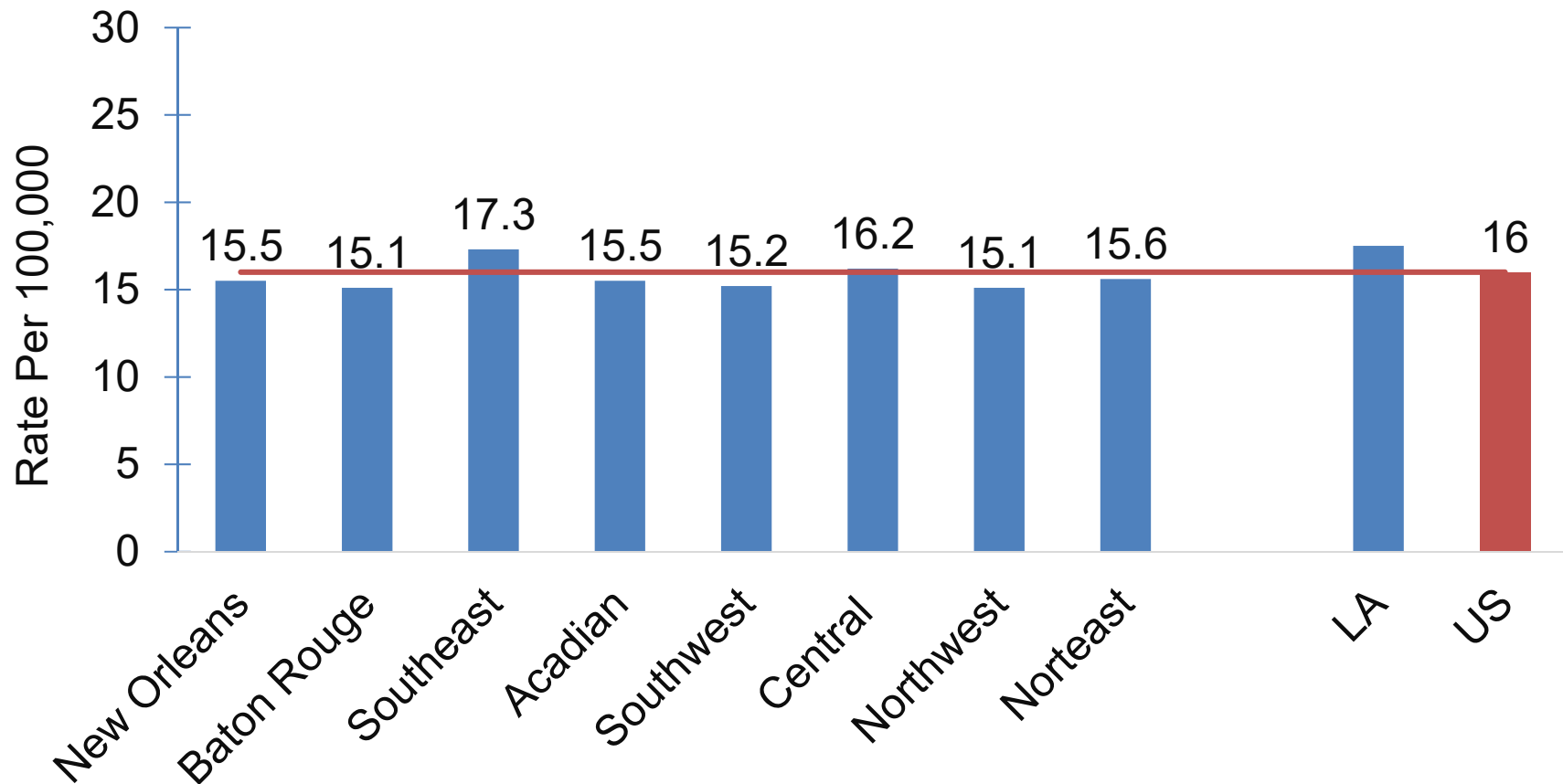
¹ Age-adjusted to the 2000 U.S. standard population.

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

³ [LTR Regions](#)

* Incidence rate of regions/Louisiana is significantly different from that of the U.S.

Pancreatic Cancer Incidence Rates^{#,1,2} by Region³: Louisiana, Blacks, 2010-2014



Only invasive cases.

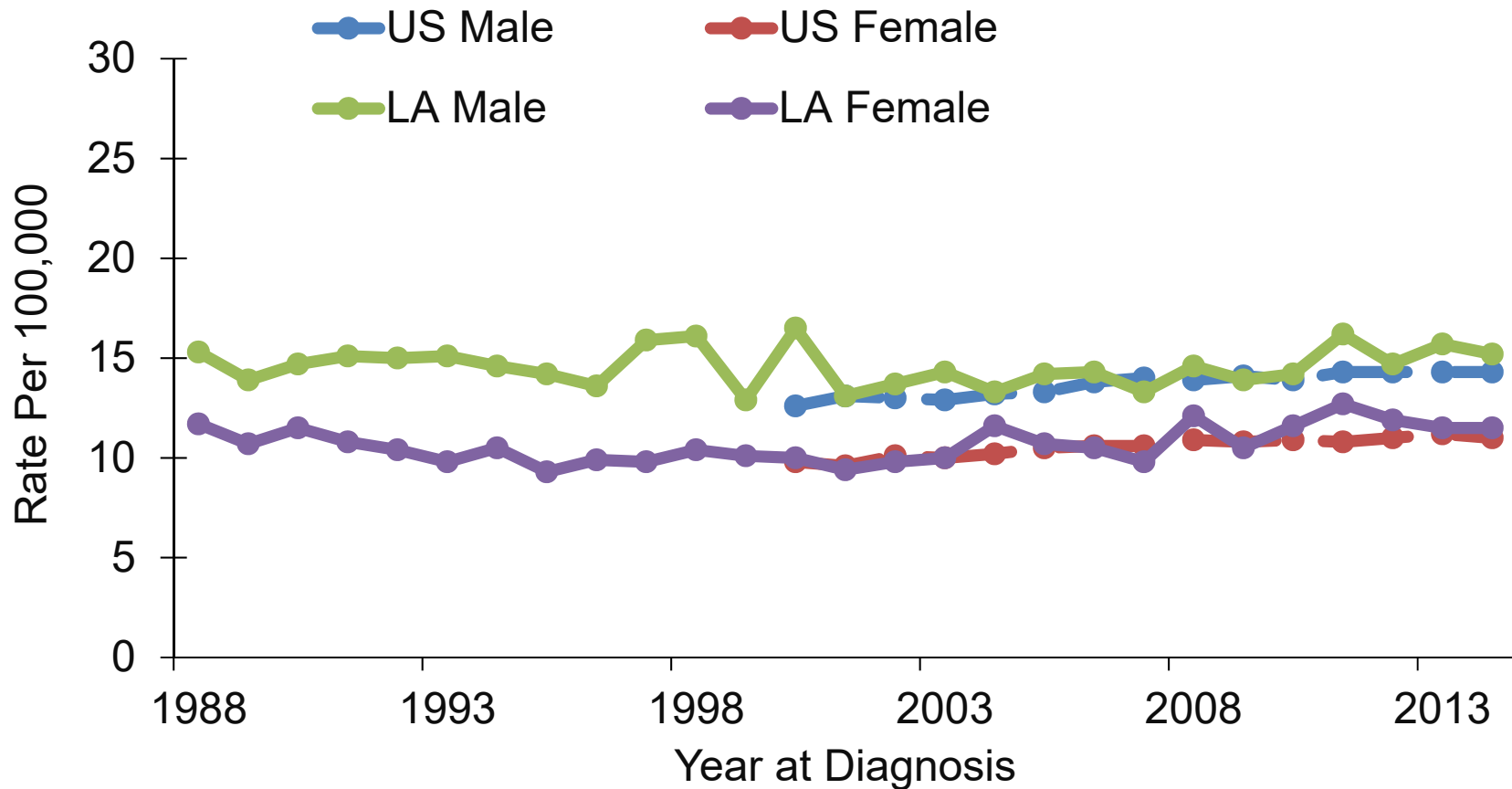
¹ Age-adjusted to the 2000 U.S. standard population.

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

³ [LTR Regions](#)

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

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

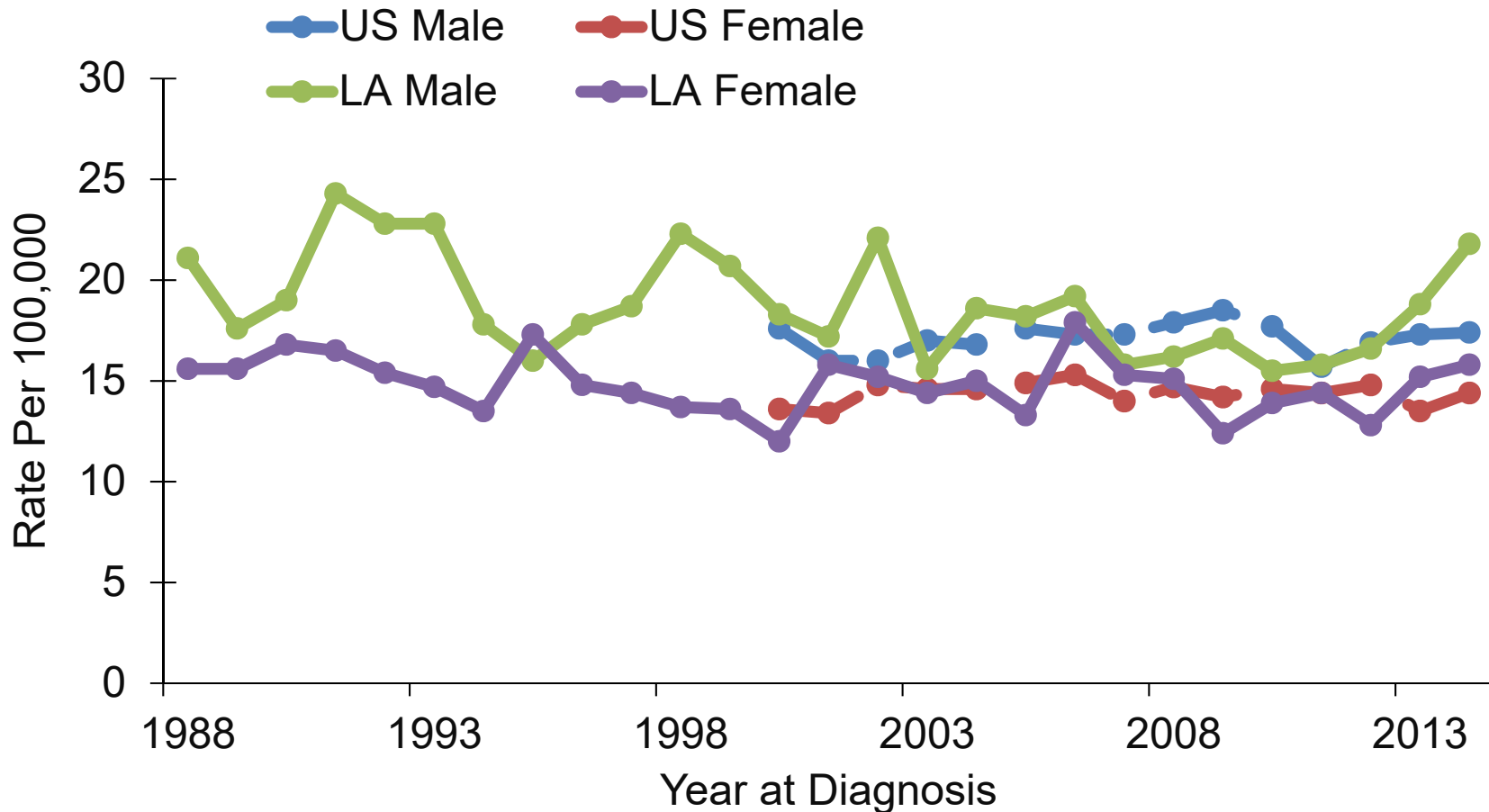


Only invasive cases.

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

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

Pancreatic Cancer : Trends of Incidence Rates^{#,1,2}, Blacks, 1988-2014

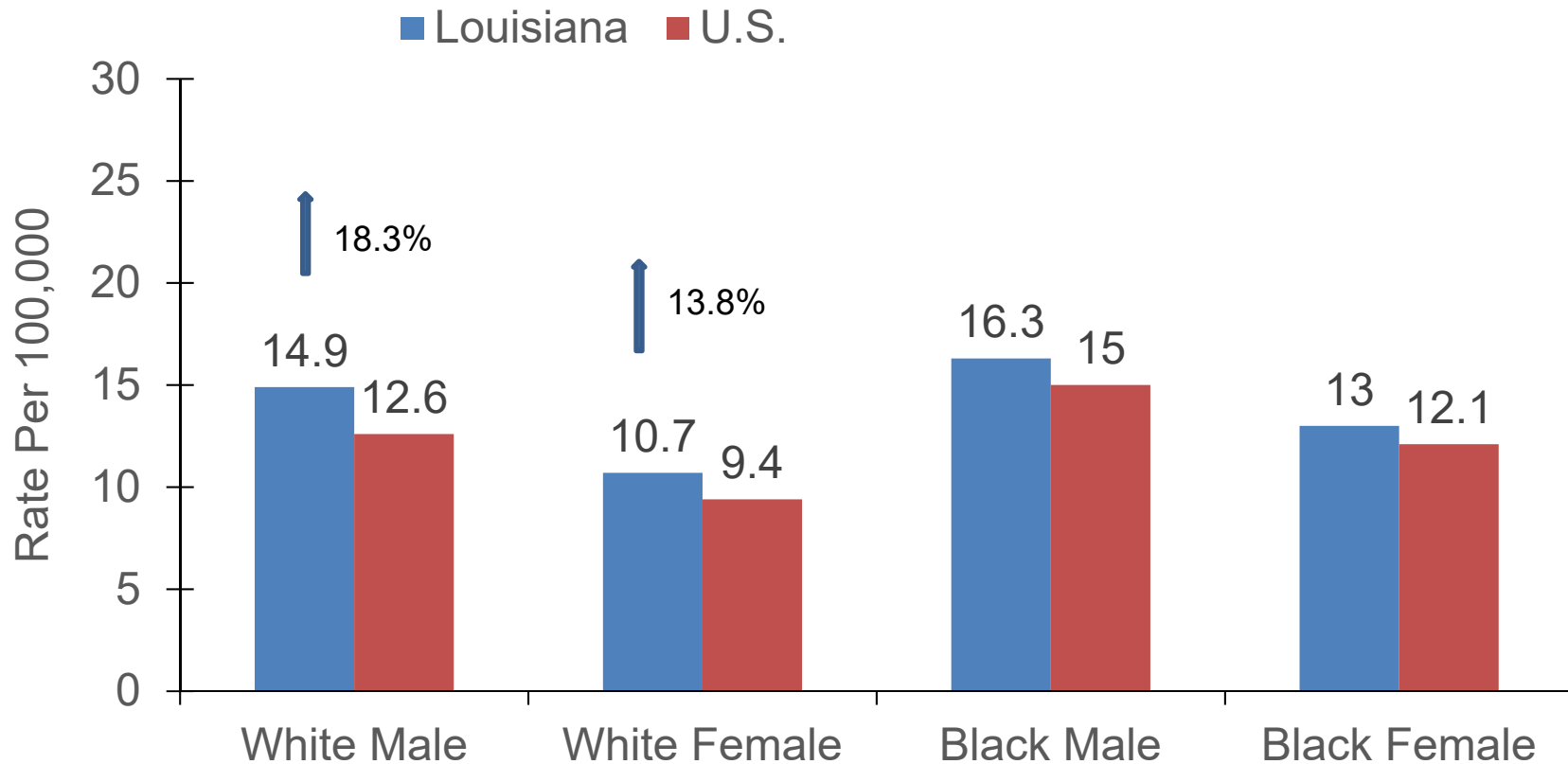


Only invasive cases.

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

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

Pancreatic Cancer: Mortality Rates¹, Louisiana vs. US², 2010-2014

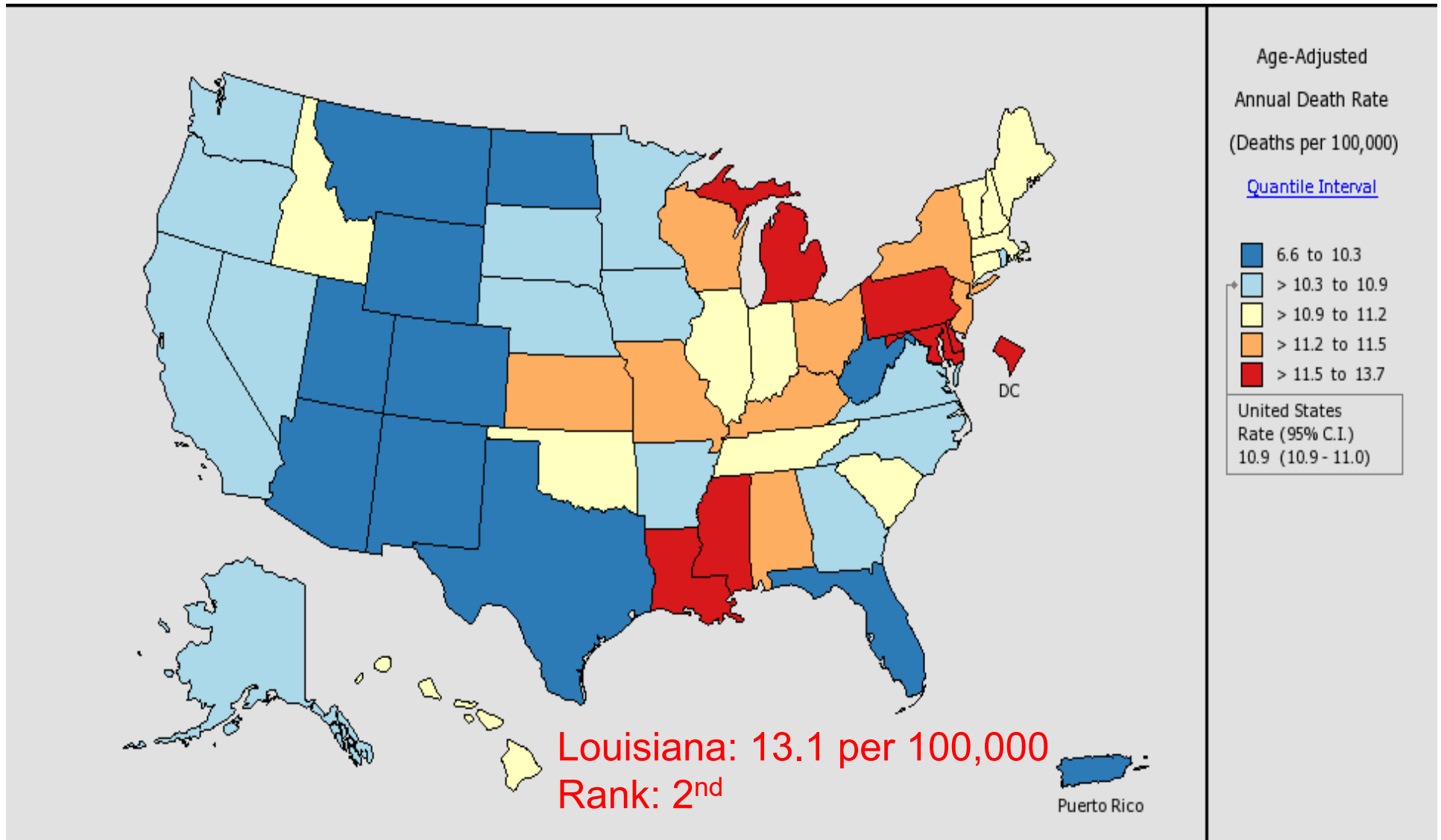


¹ Age-adjusted to the 2000 U.S. standard population.

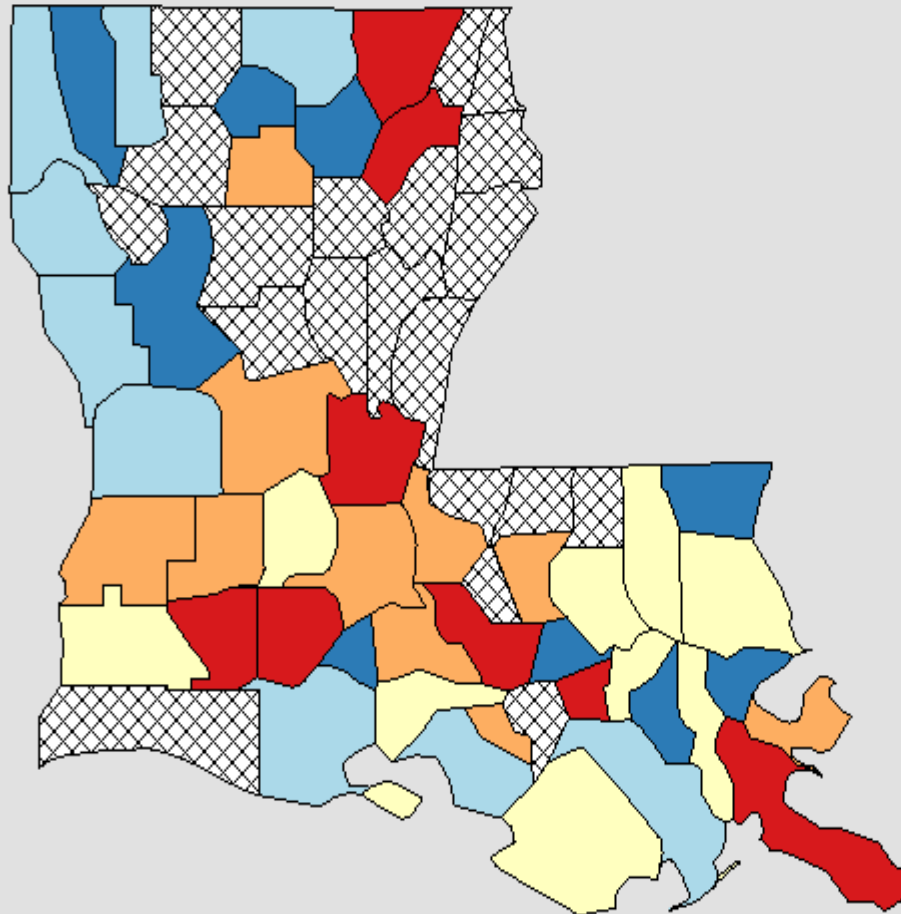
² Data source: National center of Health Statistics (NCHS).

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

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



Mortality Rates of Pancreatic Cancer in Louisiana, All Races, Both Sexes, 2010-2014



Age-Adjusted
Annual Death Rate
(Deaths per 100,000)

Quantile Interval

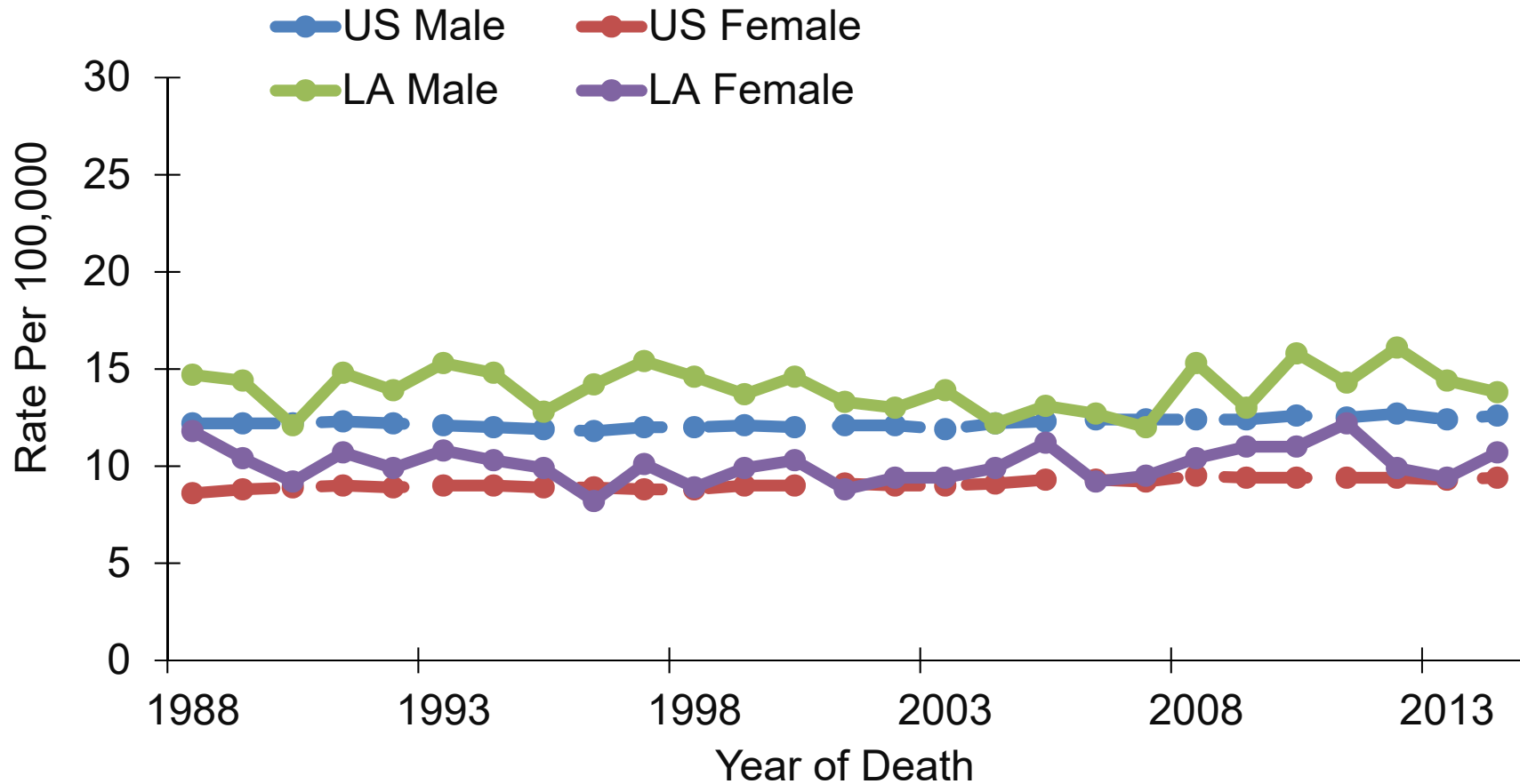
- 9.5 to 12.1
- > 12.1 to 13.0
- > 13.0 to 14.1
- > 14.1 to 15.8
- > 15.8 to 20.1

⊠ Suppressed*

United States
Rate (95% C.I.)
10.9 (10.9 - 11.0)

Louisiana
Rate (95% C.I.)
13.1 (12.6 - 13.5)

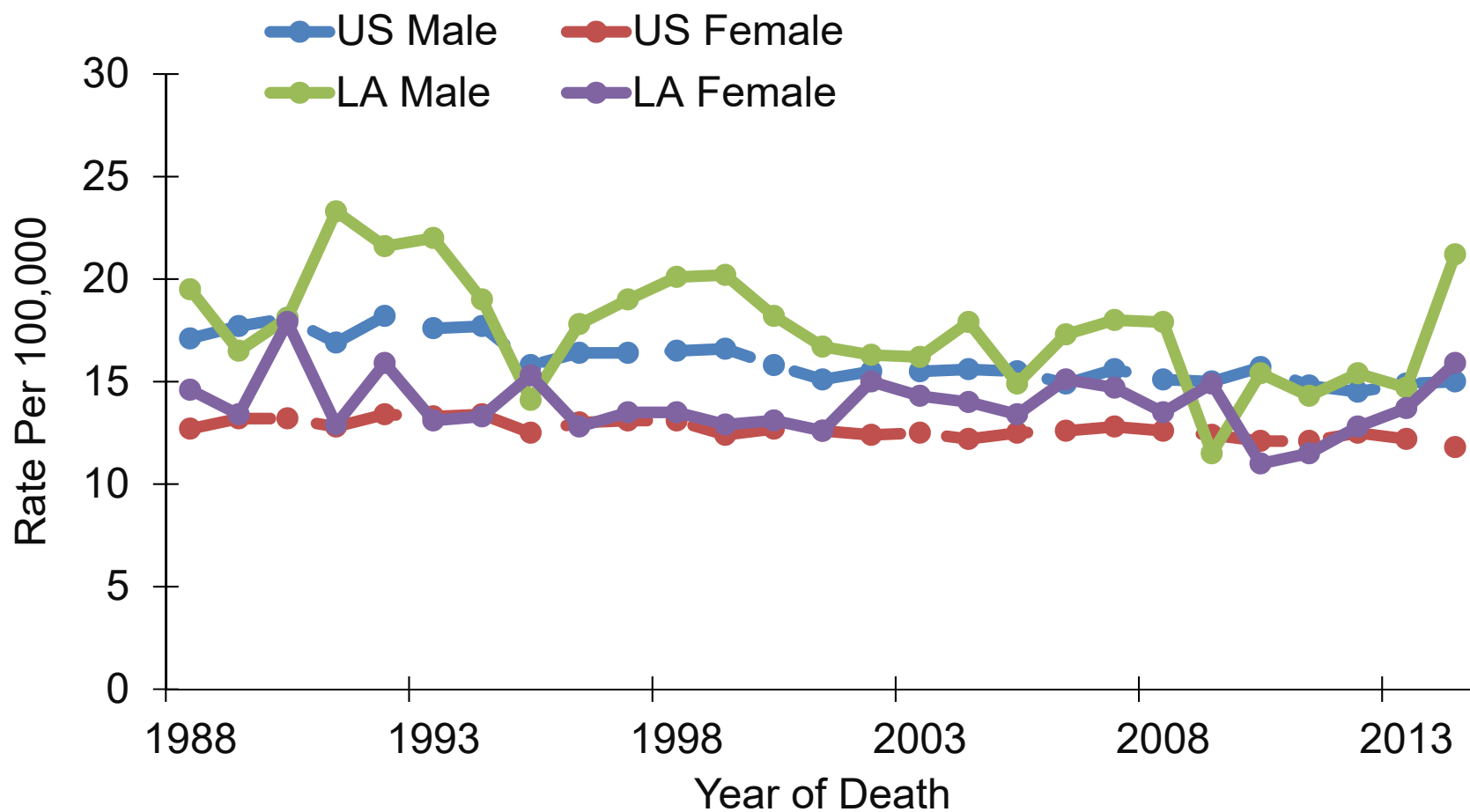
Pancreatic Cancer: Trends of Mortality Rates^{1,2}, Whites, 1988-2014



¹ Adjusted to the 2000 U.S. standard population.

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

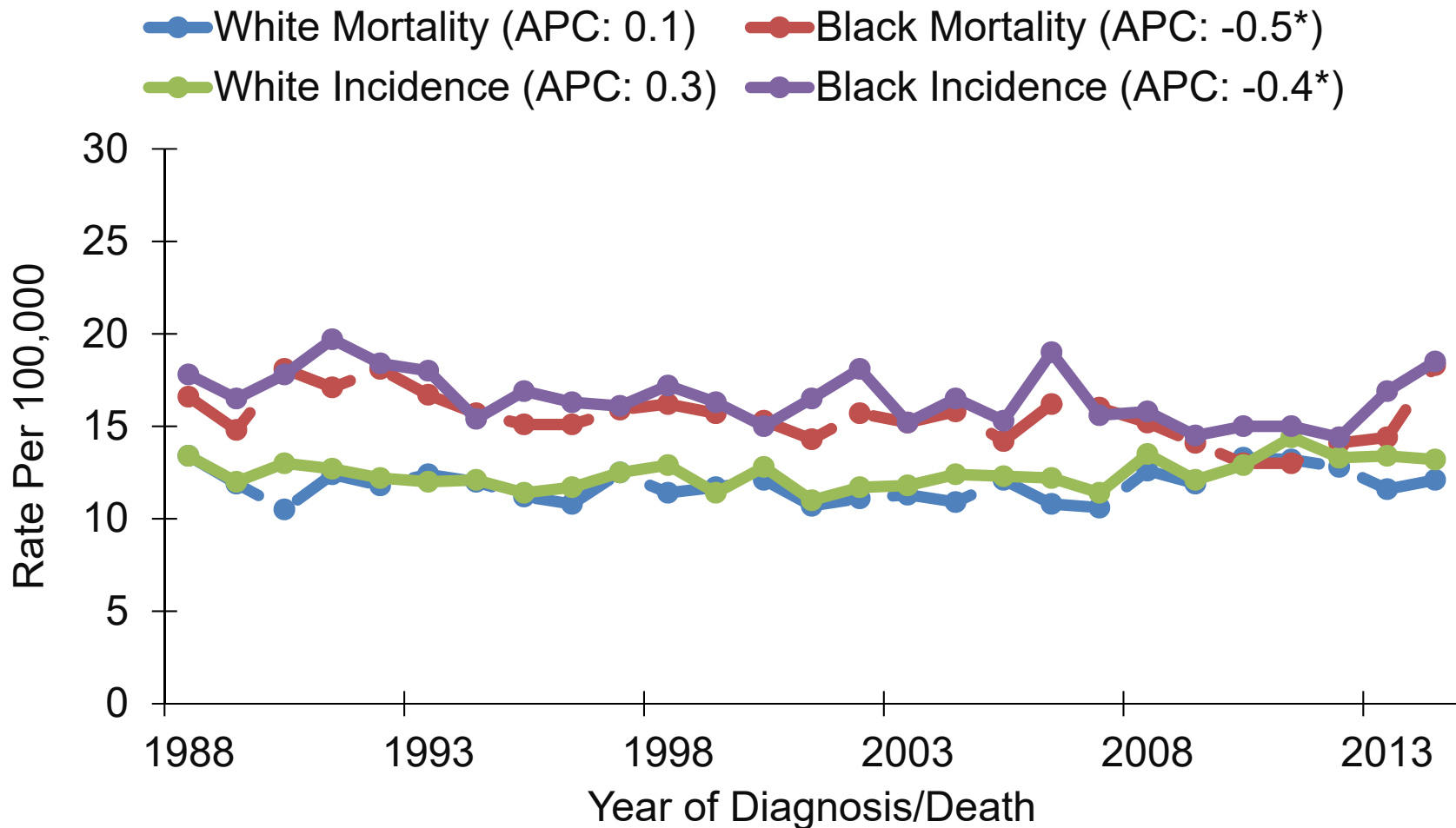
Pancreatic Cancer: Trends of Mortality Rates^{1,2}, Blacks, 1988-2014



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

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

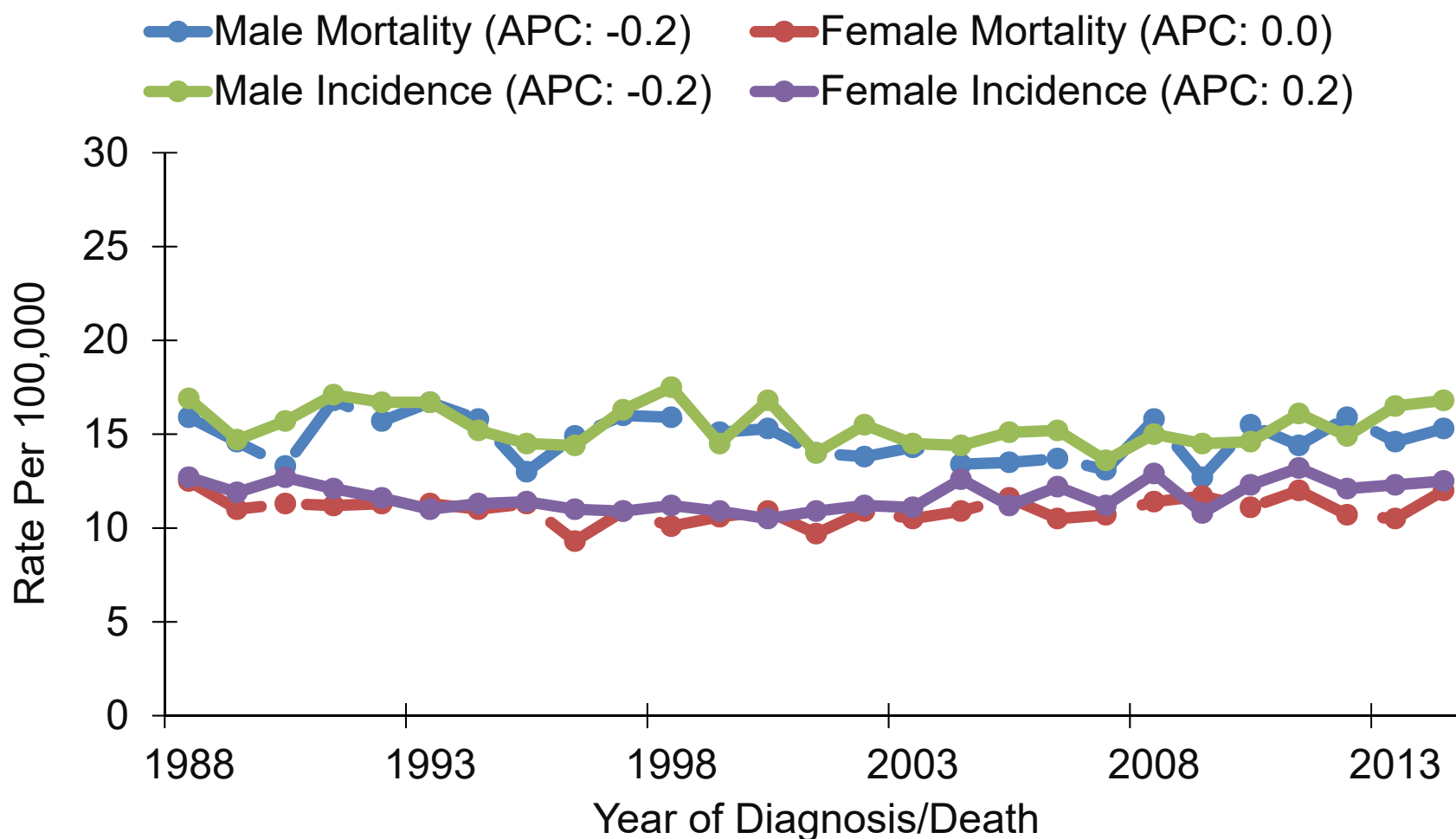
Pancreatic Cancer: Trends of Incidence[#] and Mortality Rates by Race, Louisiana, 1988-2014



[#] Only invasive cases.

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

Pancreatic Cancer: Trends of Incidence[#] and Mortality Rates by Gender, Louisiana, 1988-2014

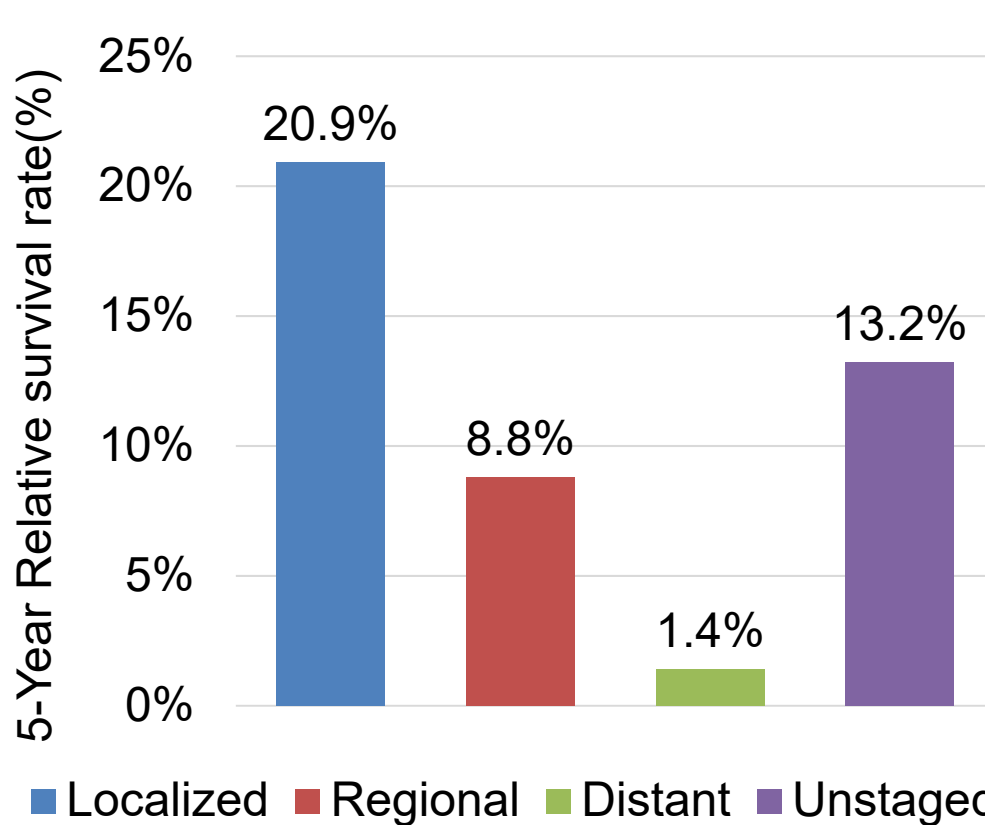


Only invasive cases.

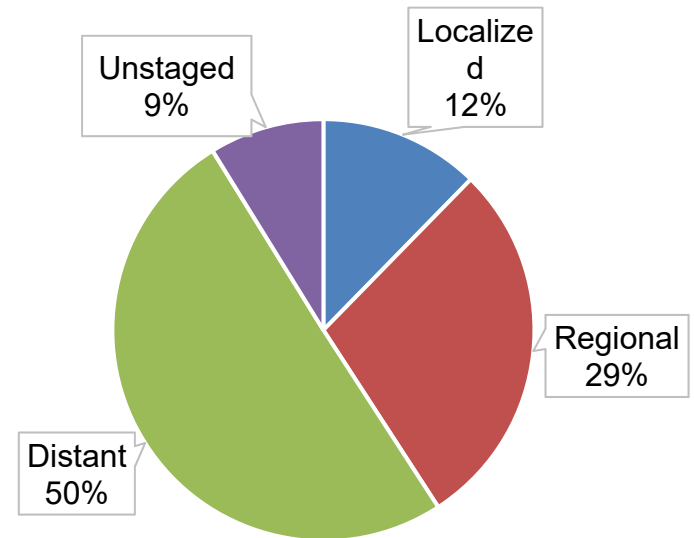
*Annual average percent change (APC) were calculated using weighted least squares method.

Pancreatic Cancer#: Louisiana

5-Year Relative Survival by Stage¹, All Races, Both Sexes, 2007-2013



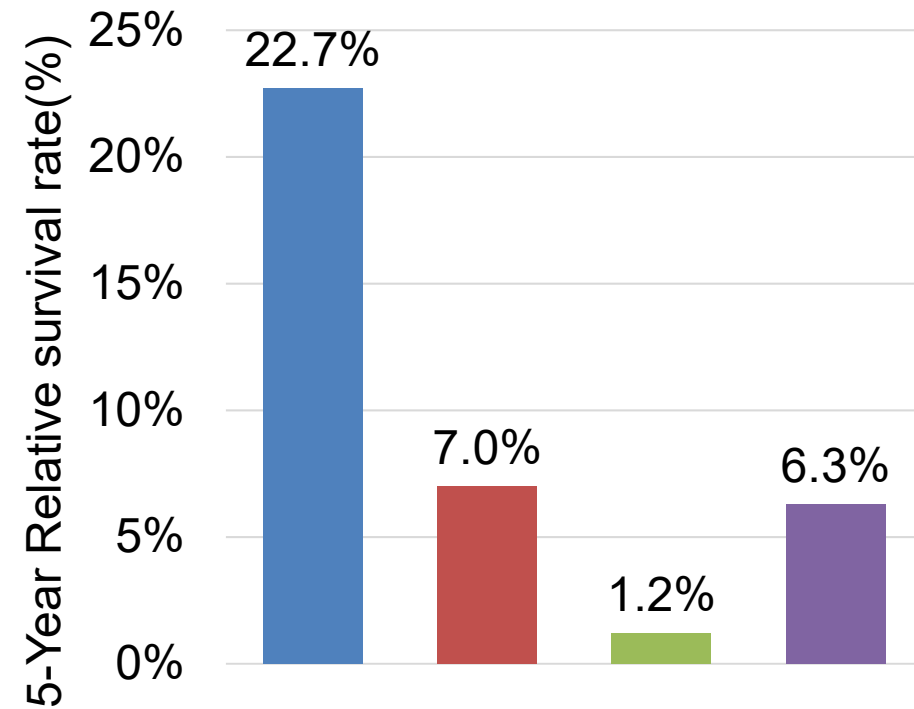
Percent of cases by stage



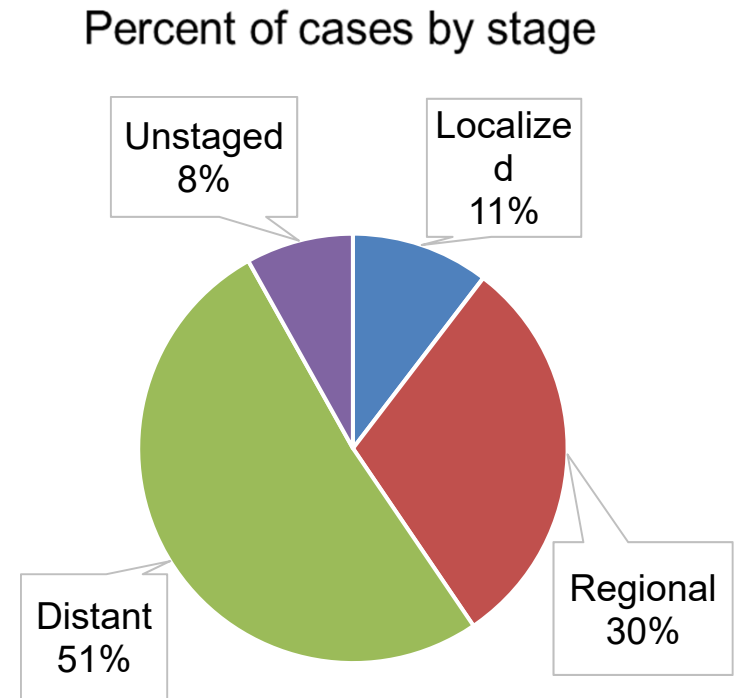
#Only invasive cases.

¹ The stage distribution is based on Derived Summary Stage 2000.

Pancreatic Cancer#: Louisiana 5-Year Relative Survival by Stage¹, White Males, 2007-2013



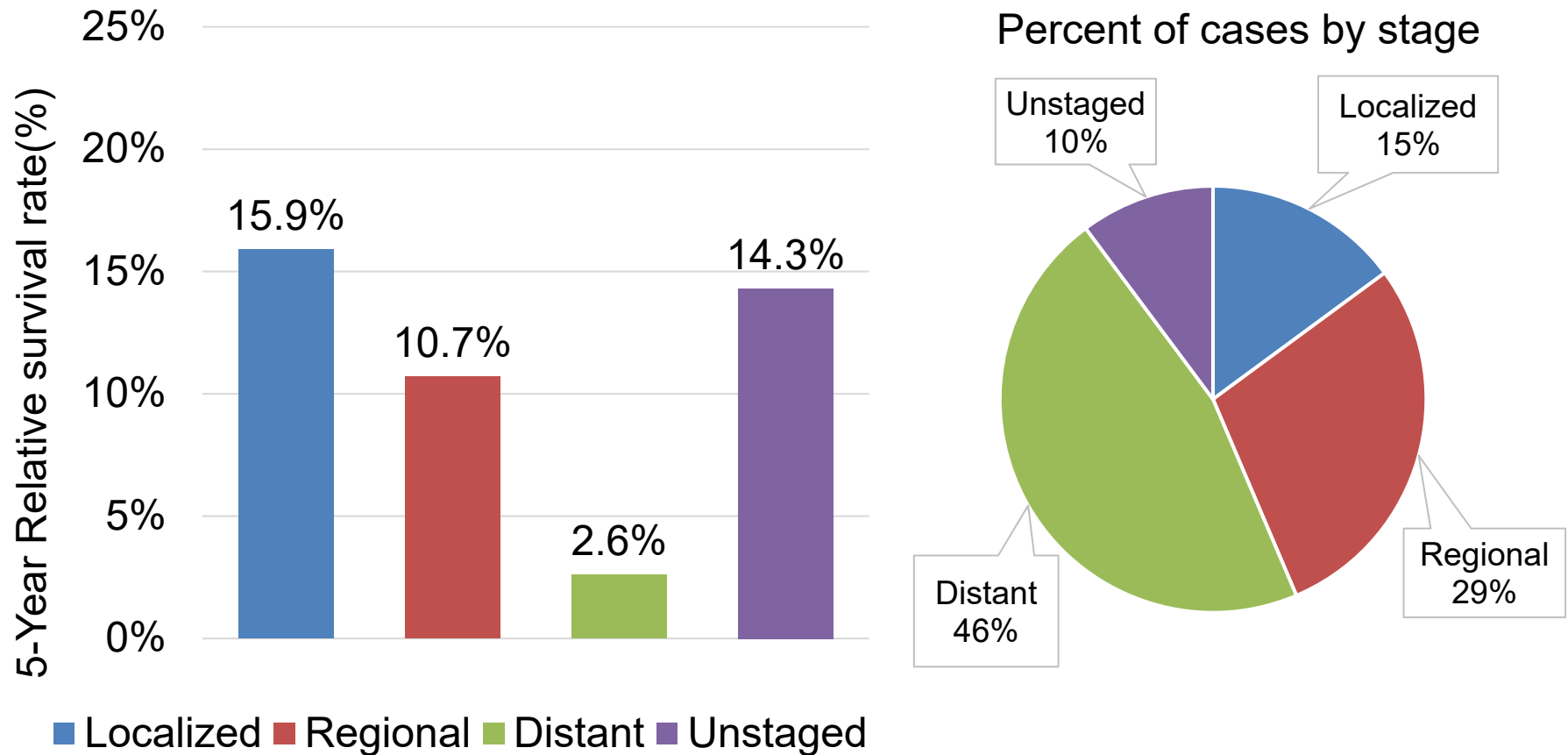
■ Localized ■ Regional ■ Distant ■ Unstaged



#Only invasive cases.

¹ The stage distribution is based on Derived Summary Stage 2000.

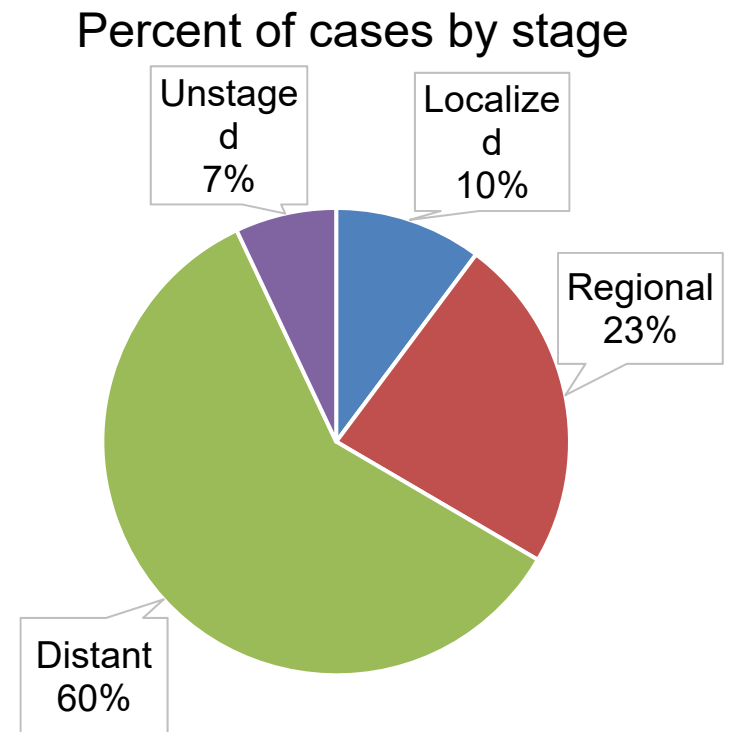
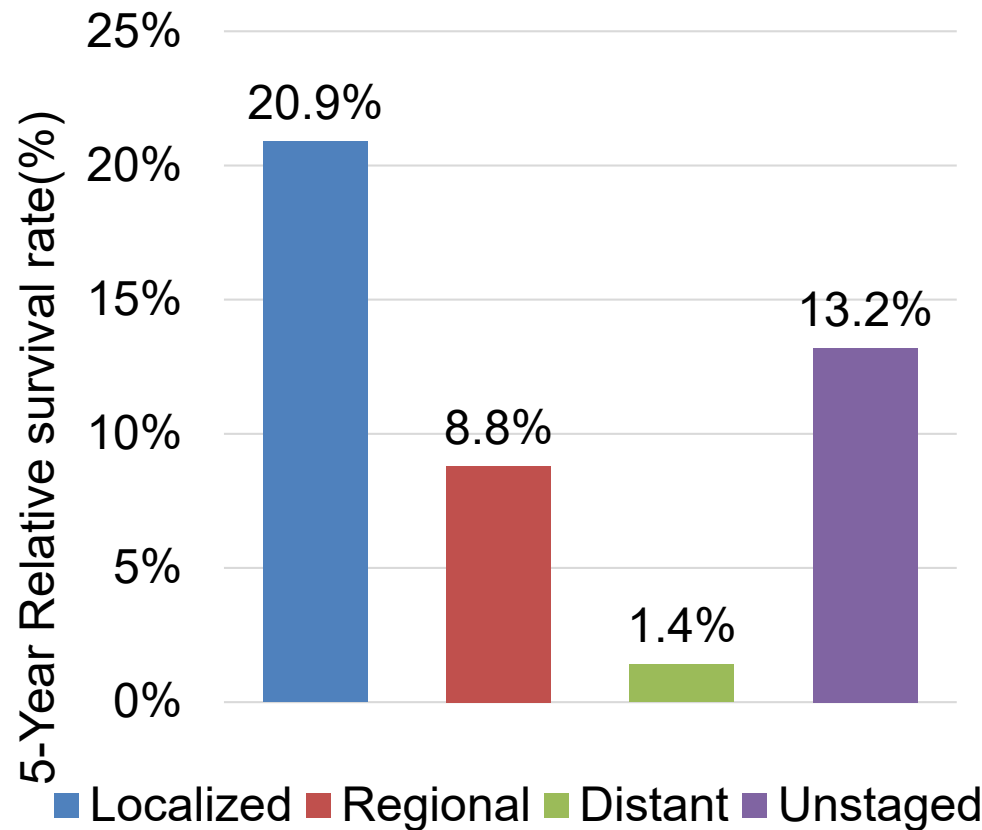
Pancreatic Cancer#: Louisiana 5-Year Relative Survival by Stage¹, White Females, 2007-2013



#Only invasive cases.

¹ The stage distribution is based on Derived Summary Stage2000.

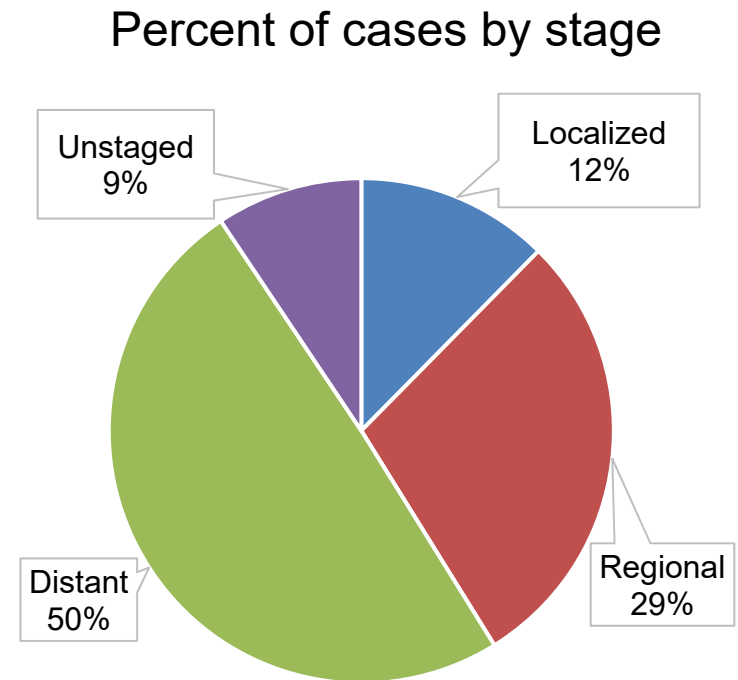
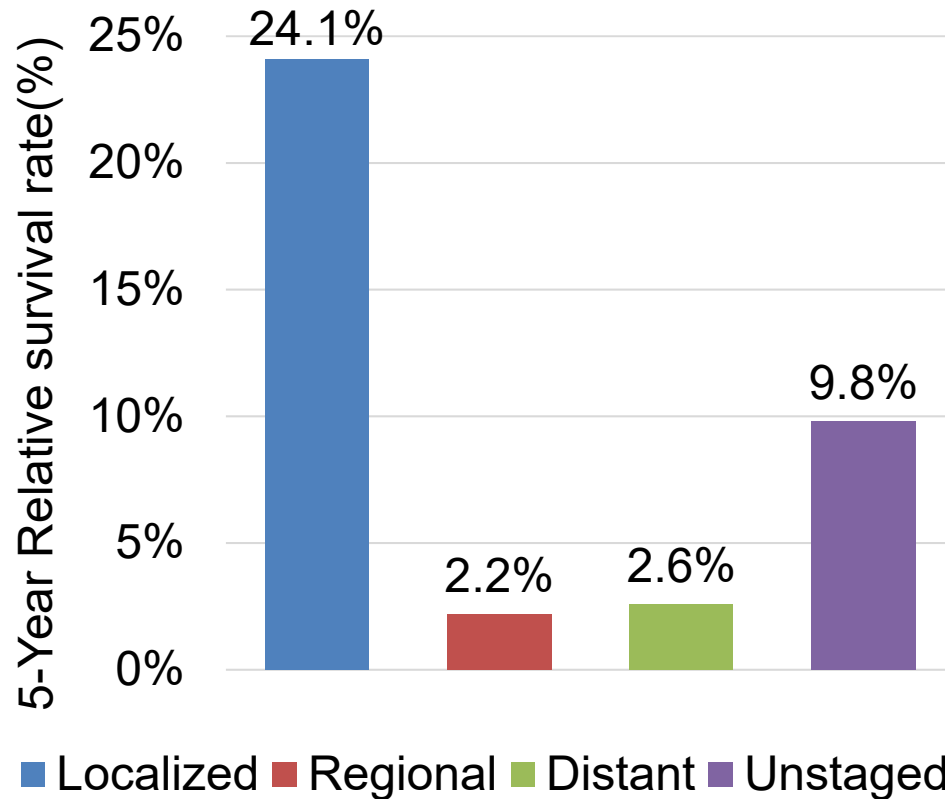
Pancreatic Cancer#: Louisiana 5-Year Relative Survival by Stage¹, Black Males, 2007-2013



#Only invasive cases.

¹ The stage distribution is based on Derived Summary Stage 2000.

Pancreatic Cancer#: Louisiana 5-Year Relative Survival by Stage¹, Black Females, 2007-2013



#Only invasive cases.

¹ The stage distribution is based on Derived 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.lsuhs.edu/>)
- **Louisiana Cancer Registrars' Association** (<http://www.lcra-usa.org/>)
- **Physicians and staff members in:**
 - Medical records offices
 - Pathology laboratories
 - Physician offices and clinics
 - Hospice programs and nursing homes
- **Regional and central offices of the Louisiana Tumor Registry**
(<http://louisianatumorregistry.lsuhs.edu/regionalregistries.html>)
- **School of Public Health, LSU Health Sciences Center–New Orleans**
- **Louisiana Cancer and Lung Trust Fund Board**
- **Coroners' offices**

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- National Cancer Institute, SEER Program
- Centers for Disease Control and Prevention (CDC), National Program of Cancer Registries (NPCR)
- Louisiana Health Care Services Division

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