Louisiana Cancer Facts & Figures, Prostate Cancer

Louisiana Tumor Registry

July, 2017
Prostate Cancer

• Prostate cancer was the most common cancer and the 3rd leading cause of cancer deaths in Louisiana men from 2010 to 2014.¹

• Between 2010 and 2014, the incidence rate of prostate cancer in Louisiana was the 3rd highest and the mortality rate was the 8th highest in the U.S.¹

• About 2,610 new prostate cancers are expected to be diagnosed and about 370 males are expected to die of prostate cancer in Louisiana in 2017.²

1. Data source: NCI state cancer profile.
Prostate Cancer: Age-Specific Incidence Rates* by Race, 2010-2014

*Invasive cases only.
U.S. data source: 18 SEER registries.
Prostate Cancer: Incidence Rates\textsuperscript{#,1,2}, 2010-2014

Rate per 100,000

\begin{align*}
\text{White} &: 127.1 \quad 112.9 \\
\text{Black} &: 199.7 \quad 188.7
\end{align*}

\footnotesize{\textsuperscript{#} Invasive cases only.}
\footnotesize{\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.}
\footnotesize{\textsuperscript{2} U.S. Incidence data source: 18 SEER registries.}
\footnotesize{↓↑Rate of Louisiana is significantly different from that of the U.S.}
Incidence Rates of Prostate Cancer in Louisiana, All Races, Both Sexes, 2010-2014

Notes:
- State Cancer Registries may provide more current or more local data.
- Data presented on the State Cancer Profiles Web Site may differ from statistics reported by the State Cancer Registries (for more information).
- Incidence rates (cases per 100,000 population per year) are age-adjusted to the 2000 US standard population (19 age groups: <1, 1-4, 5-9, ... , 80-84, 85+). Rates are for invasive cancer only (except for bladder which is invasive and in situ) or unless otherwise specified. Rates calculated using SEER*Stat. Population counts for denominators are based on Census populations as modified by NCI. The 1969-2015 US Population Data File is used for SEER and NPCR incidence rates.
- Data for the United States does not include data from Puerto Rico.

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

Quantile Interval

- 78.7 to 120.7
- > 120.7 to 128.9
- > 128.9 to 139.4
- > 139.4 to 163.2
- > 163.2 to 208.5

US (SEER + NPCR) Rate (99% C.I.)
114.8 (114.6 - 115.0)

Louisiana Rate (99% C.I.)
144.4 (142.2 - 146.7)

# Invasive cases only
Prostate 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.
Prostate 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.
Prostate Cancer: Trends of Incidence Rates#,1,2, 1988-2014

# Invasive cases only.
1 Age-adjusted to the 2000 U.S. standard population.
2 U.S. data source: 18 SEER registries.
Prostate Cancer: Mortality Rates\(^1\)
Louisiana vs. U.S.,\(^2\) 2010-2014

<table>
<thead>
<tr>
<th></th>
<th>Rate Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td></td>
</tr>
<tr>
<td>Louisiana</td>
<td>18.2</td>
</tr>
<tr>
<td>U.S.</td>
<td>18.7</td>
</tr>
<tr>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Louisiana</td>
<td>39.5</td>
</tr>
<tr>
<td>U.S.</td>
<td>42.0</td>
</tr>
</tbody>
</table>

\(^1\) Age-adjusted to the 2000 U.S. standard population.
\(^2\) Mortality data source was National Center of Health Statistics (NCHS).
Mortality rates of Louisiana are not significantly different from those of the U.S.
Mortality Rates of Prostate Cancer in Louisiana, All Races, Both Sexes, 2010-2014
Prostate Cancer: Trends of Cancer Mortality Rates\textsuperscript{1,2}, 1988-2014

\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.

\textsuperscript{2} U.S. Mortality data source was the National Center of Health Statistics (NHCS).
Prostate Cancer: Louisiana 1988-2014
Trends of Incidence# and Mortality Rates by Race

Year of Diagnosis/Death

Rate per 100,000

1991-2010 APC = -0.7*
2010-2014 APC = -7.14*)

Mortality (APC = -3.2*)

# Invasive cases only.
Annual average percent change (APC) were calculated using weighted least squares method.
* APC significantly different from zero.
Prostate Cancer#: Louisiana 5-Year Relative Survival by Stage\(^1\), White Males, 2007-2013

Percent of Cases by Stage

- Localized: 84%
- Regional: 12%
- Distant: 3%
- Unstaged: 1%

# Invasive cases only

\(^1\) The stage distribution is based on Summary Stage 2000.
Prostate Cancer#: Louisiana
5-Year Relative Survival by Stage¹, Black Males, 2007-2013

# Invasive cases only
¹ The stage distribution is based on Summary Stage 2000.
# Appendix A. Regions of the Louisiana Tumor Registry

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

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


For Incidence:

For Mortality:

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

• USCS:

• Cancer Facts & Figures:
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

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• 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.lsuhsc.edu/regionalregistries.html](http://louisianatumorregistry.lsuhsc.edu/regionalregistries.html))
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