Cervix Uteri Cancer*

• Cervical cancer had the second highest incident rate in Louisiana compared to other states nation-wide.¹
• Louisiana had the 9th highest number of female deaths attributed to Cervical cancer in the United States¹
• Cervical cancer was ranked 10th out of the top 10 most common cancers in Louisiana African American women.¹
• Around 230 new cervical cancer cases are expected to be diagnosed and about 80 persons are expected to die of this cancer in Louisiana in 2017².

* ICD_O_3/WHO 2008 code: C530-C539; excluding ICD-O-3 histology (type): 9050-9055, 9140, 9590-9992
1 Data source: State Cancer Profiles
2 Data source: American Cancer Society, Cancer Facts & Figures 2017
Cervix Uteri Cancer Incidence Rates\textsuperscript{#,1} 
Louisiana vs. US,\textsuperscript{2} 2010-2014

\[ \text{Rate Per 100,000} \]

\begin{tabular}{lcc}
\textbf{White Female} & \textbf{Louisiana} & \textbf{U.S.} \\
7.9 & 7.4 & 11.5 & 8.7
\end{tabular}

\textsuperscript{#} Only invasive cases.

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

\textsuperscript{2} Incidence data source: 18 SEER registries.
Incidence Rates # of Cervix Uteri Cancer in the U.S. All Races, Females, 2010-2014

Louisiana: Rate: 8.9 per 100,000
Rank: 8th

# Only invasive cases.
Cervix Uteri Cancer: Age-Specific Incidence Rates# Louisiana, 2010-2014

# Only invasive cases.
Cervix Uteri Cancer: Age-Specific Incidence Rates\# between US and LA Females, 2010-2014

\# Only invasive cases.
U.S. data source: 18 SEER registries.
Cervix Uteri Cancer: Age-Specific Incidence Rates# by Race, 2010-2014

# Only invasive cases.
U.S. data source: 18 SEER registries.
Incidence Rates of Cervix Uteri Cancer in the Louisiana, All Races, Females, 2010-2014

# Only invasive cases.

LSU Health
NEW ORLEANS
Louisiana Tumor Registry
Cervix Uteri Cancer Incidence Rates\(^*,1,2\) by Region\(^3\)
Louisiana, White Females, 2010-2014

<table>
<thead>
<tr>
<th>Region</th>
<th>Rate Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Orleans</td>
<td>8.1</td>
</tr>
<tr>
<td>Baton Rouge</td>
<td>6.4</td>
</tr>
<tr>
<td>Southeast</td>
<td>7.6</td>
</tr>
<tr>
<td>Acadiana</td>
<td>9.1</td>
</tr>
<tr>
<td>Southwest</td>
<td>8.5</td>
</tr>
<tr>
<td>Central North</td>
<td>8.0</td>
</tr>
<tr>
<td>Northwest</td>
<td>9.2</td>
</tr>
<tr>
<td>Northeast</td>
<td>7.9</td>
</tr>
<tr>
<td>LA</td>
<td>7.9</td>
</tr>
<tr>
<td>US</td>
<td>7.4</td>
</tr>
</tbody>
</table>

\(^#\) 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.
Cervix Uteri Cancer Incidence Rates\textsuperscript{1,2}\# by Region Louisiana, Black Females, 2010-2014

\textbf{New Orleans} 10.2  
\textbf{Baton Rouge} 10.6  
\textbf{Southeast} 10.1  
\textbf{Acadiana} 11.3  
\textbf{Southwest} 14.8\#  
\textbf{Central North} 11.0  
\textbf{Northwest} 13.3\#  
\textbf{Northeast} 13.7  
\textbf{LA} 11.5  
\textbf{US} 8.7  

\# Only invasive cases.  
\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.  
\textsuperscript{2} Data source for U.S. was the 18 SEER registries.  
\textsuperscript{3} LTR Regions  
* Incidence rate of regions/Louisiana is significantly different from that of the U.S.
Cervix Uteri 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.
Cervix Uteri Cancer: Trends of Incidence Rates\textsuperscript{#,1,2}
Blacks, 1988-2014

\textsuperscript{#} Only invasive cases.
\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.
\textsuperscript{2} U.S. data source: 18 SEER registries.
Cervix Uteri Cancer Mortality Rates\textsuperscript{1} Louisiana vs. US\textsuperscript{2}, 2010-2014

1 Age-adjusted to the 2000 US standard population.
2 Data source: National center of Health Statistics (NCHS).

\begin{figure}
\centering
\includegraphics[width=\textwidth]{chart.png}
\caption{Cervix Uteri Cancer Mortality Rates in Louisiana vs. US, 2010-2014.}
\end{figure}
Mortality Rates of Cervix Uteri Cancer in the U.S.
All Races, Females, 2010-2014

Louisiana:
Rate: 2.9 per 100,000
Rank: 6th
Mortality Rates of Cervix Uteri Cancer in the Louisiana, All Races, Females, 2010-2014
Cervix Uteri Cancer: Trends of Mortality Rates\textsuperscript{1,2}, White Females, 1988-2014

\textsuperscript{1} Adjusted to the 2000 US standard population.
\textsuperscript{2} Data source: National Center of Health Statistics (NCHS).
Cervix Uteri Cancer: Trends of Mortality Rates$^1,^2$, Blacks, 1988-2014

1 Age-adjusted to the 2000 US standard population.
2 Data source: National Center of Health Statistics (NCHS).

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**Legend:**
- U.S. Female
- LA Female

**Graph: Cervix Uteri Cancer Mortality Rates**
- **Y-axis:** Rate per 100,000
- **X-axis:** Year of Diagnosis

**Data Points:**
- 1986
- 1990
- 1994
- 1998
- 2002
- 2006
- 2010
- 2014

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**Sources:**
- LSU Health New Orleans
- Louisiana Tumor Registry
Cervix Uteri Cancer: Trends of Incidence # and Mortality Rates of Females, by Race, Louisiana, 1988-2014

# Only invasive cases.

*Annual average percent change (APC) were calculated using weighted least squares method.
Cervix Uteri Cancer: Trends of Incidence and Mortality Rates Across Females Louisiana, 1988-2014

**Female Incidence (APC:-1.7*)**

**Female Mortality (APC:-2.2*)**

Only invasive cases.

*Annual average percent change (APC) were calculated using weighted least squares method.
Cervix Uteri Cancer#: Louisiana
5-Year Relative Survival by Stage¹, All Races, Females, 2007-2013

#Only invasive cases.
¹ The stage distribution is based on Summary Stage 2000.
Cervix Uteri Cancer#: Louisiana
5-Year Relative Survival by Stage\(^1\), White Females, 2007-2013

Percent of Cases by Stages

- Localized, 48%
- Regional, 37%
- Distant, 11%
- Unstaged, 4%

Percent of Cases by Stages

- Localized, 83.7%
- Regional, 51.2%
- Distant, 20.7%
- Unstaged, 4%

# Only invasive cases.
\(^1\) The stage distribution is based on Summary Stage 2000.
Cervix Uteri Cancer#: Louisiana 5-Year Relative Survival by Stage\(^1\), Black Females, 2007-2013

#Only invasive cases.

\(^1\) 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, Beaufort, 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:
• 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:

• 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.
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  • Pathology laboratories
  • Physician offices and clinics
  • Hospice programs and nursing homes
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