Louisiana Cancer Facts & Figures, Oral Cavity and Pharynx Cancer

Louisiana Tumor Registry

September, 2017
Oral Cavity and Pharynx Cancer*

• From 2010 to 2014, Louisiana had the 3rd highest incidence rate and 2nd highest death rate of oral cavity and pharynx cancer of any state in the nation (all races and sexes combined).¹

• About 740 new oral cavity and pharynx cancer cases are expected to be diagnosed and about 170 persons are expected to die of this cancer in Louisiana in 2017.²

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¹ Data source: USCS.
Oral Cavity and Pharynx#:
Incidence Rates¹, Louisiana vs. U.S.,² 2010-2014

<table>
<thead>
<tr>
<th>Group</th>
<th>Rate Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Louisiana</td>
<td>U.S.</td>
</tr>
<tr>
<td>White Male</td>
<td>21.9</td>
</tr>
<tr>
<td>Black Male</td>
<td>17.3</td>
</tr>
<tr>
<td>White Female</td>
<td>7.1</td>
</tr>
<tr>
<td>Black Female</td>
<td>5.5</td>
</tr>
</tbody>
</table>

#Only invasive cases.
¹ Age-adjusted to the 2000 U.S. standard population.
² Incidence data source:18 SEER registries.
† Incidence rate of Louisiana is significantly different from that of the U.S.
Incidence Rates\(^\#\) of Oral Cavity and Pharynx Cancer in the U.S., All Races, Both Sexes, 2010-2014

Louisiana:
Rate: 13.1 per 100,000
Rank: 3rd

\(^\#\)Only invasive cases.
Oral Cavity and Pharynx Cancer: Age-Specific Incidence Rates# Louisiana, 2010-2014

#Only invasive cases.
Oral Cavity and Pharynx Cancer: Age-Specific Incidence Rates by Gender, 2010-2014

#Only invasive cases.
U.S. data source: 18 SEER registries.
Oral Cavity and Pharynx Cancer: Age-Specific Incidence Rates# by Race, 2010-2014

#Only invasive cases.
U.S. data source: 18 SEER registries.
Incidence Rates# of Oral Cavity and Pharynx Cancer in Louisiana, All Races, Both Sexes, 2010-2014

#Only invasive cases.
Oral Cavity and Pharynx Cancer Incidence Rates\#,1,2 by Region\(^3\): 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.
\(^3\)See Appendix A for Regions in the Louisiana Tumor Registry.

* Incidence rate of regions/Louisiana is significantly different from that of the US.
## Oral Cavity and Pharynx Cancer Incidence Rates by Region, Louisiana, Blacks, 2010-2014

<table>
<thead>
<tr>
<th>Region</th>
<th>Rate per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Orleans</td>
<td>9.0</td>
</tr>
<tr>
<td>Baton Rouge</td>
<td>12.1*</td>
</tr>
<tr>
<td>Southeast</td>
<td>9.5</td>
</tr>
<tr>
<td>Acadiana</td>
<td>10.0</td>
</tr>
<tr>
<td>Southwest</td>
<td>12.3</td>
</tr>
<tr>
<td>Central</td>
<td>12.0</td>
</tr>
<tr>
<td>Northwest</td>
<td>11.7*</td>
</tr>
<tr>
<td>Northeast</td>
<td>10.7</td>
</tr>
<tr>
<td>LA</td>
<td>10.7</td>
</tr>
<tr>
<td>U.S.</td>
<td>9.1</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 See Appendix A for the regions in the Louisiana Tumor Registry.

* Incidence rate of regions/Louisiana is significantly different from that of the US.
Oral Cavity and Pharynx 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](#).
Oral Cavity and Pharynx 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.
Oral Cavity and Pharynx Cancer: Mortality Rates\(^1\), Louisiana vs. U.S.\(^2\), 2009-2013

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

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

\(^\uparrow\) The rate of Louisiana is significantly different from that of the U.S.
Mortality Rates of Oral Cavity and Pharynx Cancer in the U.S., All Races, Both Sexes, 2010-2014

Louisiana:
Rate: 3.3 per 100,000
Rank: 2nd
Mortality Rates of Oral Cavity and Pharynx Cancer in Louisiana, All Races, Both Sexes, 2010-2014

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

Quantile Interval
- 2.5 to 2.9
- > 2.9 to 3.4
- > 3.4 to 3.8
- > 3.8 to 5.1
- > 5.1 to 5.8
- Suppressed

United States Rate (95% C.I.)
2.5 (2.4 - 2.5)

Louisiana Rate (95% C.I.)
3.3 (3.1 - 3.5)

Healthy People 2020 Goal C-6
2.3
Oral Cavity and Pharynx Cancer: Trends of Mortality Rates\textsuperscript{1,2}, Whites, 1988-2014

\textsuperscript{1} Adjusted to the 2000 U.S. standard population.
\textsuperscript{2} Data source: National Center of Health Statistics (NCHS).
Oral Cavity and Pharynx Cancer: Trends of Mortality Rates$^{1,2,3}$, Blacks, 1988-2014

$^1$ Age-adjusted to the 2000 U.S. standard population.
$^2$ Data source: National Center of Health Statistics (NCHS).
$^3$ Louisiana female mortality rate trends could not be calculated due to small case counts.
Oral Cavity and Pharynx Cancer: Louisiana Trends of Incidence# and Mortality Rates by Race, 1988-2014

Rate per 100,000

Year of Diagnosis/Death

White Mortality (APC: -1.1*)  Black Mortality (APC: -2.3*)
White Incidence (APC: 0.6*)  Black Incidence (APC: -0.7*)

#Only invasive cases.
Annual average percent change (APC) were calculated using weighted least squares method.
Oral Cavity and Pharynx Cancer: Louisiana
Trends of Incidence# and Mortality Rates by Gender,
1988-2014

#Only invasive cases.
Annual average percent change (APC) were calculated using weighted least squares
method.
Oral Cavity and Pharynx Cancer#: Louisiana 5-Year Relative Survival by Stage¹, All Races, Both Sexes, 2007-2013

#Only invasive cases.
¹ The stage distribution is based on Summary Stage 2000.
Oral Cavity and Pharynx Cancer#: Louisiana 5-Year Relative Survival by Stage¹, White Males, 2007-2013

#Only invasive cases.
¹ The stage distribution is based on Derived Summary Stage 2000.
Oral Cavity and Pharynx Cancer#: Louisiana
5-Year Relative Survival by Stage¹, Black Males, 2007-2013

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

- Localized: 75.1%
- Regional: 49.1%
- Distant: 36.5%
- Unstaged: 51.3%

*Only invasive cases.
\(^1\) The stage distribution is based on Summary Stage 2000.
Oral Cavity and Pharynx Cancer#: Louisiana
5-Year Relative Survival by Stage\textsuperscript{1,2}, Black Females, 2007-2013

\textsuperscript{#}Only invasive cases.

\textsuperscript{1} The stage distribution is based on Summary Stage 2000.

\textsuperscript{2} The survival rate of unstaged cases could not be calculated due to small case counts.
## 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:
• 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
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