Louisiana Cancer Facts & Figures,
Thyroid Cancer

Louisiana Tumor Registry

September, 2017
Thyroid Cancer*

• From 2010 to 2014, Louisiana had the 32nd highest incidence rate and 44th highest death rate of thyroid cancer of any state in the nation (all races and sexes combined). ¹

• Thyroid cancer was the 4th most commonly diagnosed cancer among Louisiana females between 2010 to 2014.¹

• About 650 new thyroid cancer cases are expected to be diagnosed in Louisiana in 2017.²

* ICD_O_3/WHO 2008 code:C739; excluding ICD-O-3 histology (type): 9050-9055, 9140, 9590-9992

¹ Data source: USCS.
Thyroid 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.
Incidence Rates of Thyroid Cancer in the U.S., All Races, Both Sexes, 2010-2014

Louisiana:
Rate: 13.2 per 100,000
Rank: 33rd

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

#Only invasive cases.
Thyroid Cancer: Age-Specific Incidence Rates #
by Gender, 2010-2014

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

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

#Only invasive cases.
Thyroid Cancer Incidence\#,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.
Thyroid Cancer Incidence#,1,2 by Region3:
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>9.3</td>
</tr>
<tr>
<td>Baton Rouge</td>
<td>8.4</td>
</tr>
<tr>
<td>Southeast</td>
<td>10.1</td>
</tr>
<tr>
<td>Acadiana</td>
<td>8.5</td>
</tr>
<tr>
<td>Southwest</td>
<td>9.3</td>
</tr>
<tr>
<td>Central</td>
<td>11.4</td>
</tr>
<tr>
<td>Northwest</td>
<td>9.1</td>
</tr>
<tr>
<td>Northeast</td>
<td>8.7</td>
</tr>
<tr>
<td>LA</td>
<td>9.1</td>
</tr>
<tr>
<td>U.S.</td>
<td>8.7</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 Regions in the Louisiana Tumor Registry.
* Incidence rate of regions/Louisiana is significantly different from that of the US.
Thyroid 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.
Thyroid 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.
* Black LA male incidence trends can not displayed due to small case counts.
Thyroid Cancer: Mortality Rates\(^1\),
Louisiana vs. U.S.\(^2\), 2010-2014

\(^1\) Age-adjusted to the 2000 U.S. standard population.
\(^2\) Data source: National Center of Health Statistics (NCHS).
* Louisiana black male mortality rate, 2010-2014, could not displayed due to small case counts.
Mortality Rates of Thyroid Cancer in the U.S., All Races, Both Sexes, 2010-2014

Louisiana:
Rate: 0.4 per 100,000
Rank: 44th
Thyroid Cancer: Trends of Mortality Rates\textsuperscript{1,2,3}, Whites, 1988-2014

1 Adjusted to the 2000 U.S. standard population.
2 Data source: National Center of Health Statistics (NCHS).
3 Louisiana male and female mortality trends could not be displayed due to small case count.
Thyroid Cancer: Trends of Mortality Rates\textsuperscript{1,2,3}, Blacks, 1988-2014

\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.  
\textsuperscript{2} Data source: National Center of Health Statistics (NCHS).  
\textsuperscript{3} Louisiana male and female mortality trends could not be displayed due to small case count.
Thyroid Cancer: Trends of Incidence and Mortality Rates, by Race, Louisiana, 1988-2014

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

Only invasive cases.

Louisiana mortality trends by race could not be displayed due to small case count.
# Thyroid 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.

1 Louisiana mortality trends by race could not be displayed due to small case count.
Thyroid Cancer#: Louisiana
5-Year Relative Survival by Stage\(^1,2\), All Races, Both Sexes, 2007-2013

5-Year Relative Survival Rate (%)

<table>
<thead>
<tr>
<th>Stage</th>
<th>Survival Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localized</td>
<td>99.9%</td>
</tr>
<tr>
<td>Regional</td>
<td>96.5%</td>
</tr>
<tr>
<td>Distant</td>
<td>58.0%</td>
</tr>
<tr>
<td>Unstaged</td>
<td>91.2%</td>
</tr>
</tbody>
</table>

Percent of Cases by Stage

- Localized: 76%
- Regional: 20%
- Distant: 3%
- Unstaged: 1%

#Only invasive cases.
\(^1\) The stage distribution is based on Summary Stage 2000.
Thyroid Cancer#: Louisiana
5-Year Relative Survival by Stage\(^1,2\), White Males, 2007-2013

- **Localized**: 99.6%
- **Regional**: 92.4%
- **Distant**: 53.9%
- **Unstaged**: 90.2%

### Percent of Cases by Stage
- Localized: 68%
- Regional: 25%
- Distant: 5%
- Unstaged: 2%

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\(^#\)Only invasive cases.

\(^1\) The stage distribution is based on Summary Stage 2000.

\(^2\) The survival rate for unstaged cases could not be displayed due to small case counts.
Thyroid Cancer#: Louisiana
5-Year Relative Survival by Stage\(^1,2\), Black Males, 2007-2013

<table>
<thead>
<tr>
<th>Stage</th>
<th>5-Year Relative Survival Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localized</td>
<td>99.1%</td>
</tr>
<tr>
<td>Regional</td>
<td>95.8%</td>
</tr>
<tr>
<td>Distant</td>
<td>45.1%</td>
</tr>
<tr>
<td>Unstaged</td>
<td>0%</td>
</tr>
</tbody>
</table>

Percent of Cases by Stage

- Localized: 77%
- Regional: 13%
- Distant: 9%
- Unstaged: 1%

\(^1\) Only invasive cases.

\(^2\) The stage distribution is based on Summary Stage 2000.

The survival rates for unstaged cases could not be displayed due to small case counts.
Thyroid Cancer#: Louisiana
5-Year Relative Survival by Stage¹, White Females, 2007-2013

# Only invasive cases.
¹ The stage distribution is based on Summary Stage 2000.
Thyroid Cancer#: Louisiana
5-Year Relative Survival by Stage¹, 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, 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-CS), 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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Editors
Lu Zhang, PhD, MPH
Lauren Maniscalco, MPH
Meichin Hsieh, PhD, MSPH, CTR
Xiaocheng Wu, MD, MPH, CTR

Contributors
Xiangrong Li, MD, MSPH
Brent Mumphrey, BS
Tina Lefante, MPH
Lisa Pareti, BS, RHIT, CTR
Yong Yi, PhD, MS
Questions?

Contact: LTR-info@lsuhsc.edu or 504-568-5757