Louisiana Cancer Facts & Figures, Thyroid Cancer

Louisiana Tumor Registry

January 5, 2016
Thyroid Cancer*

- Thyroid cancer was the 13th most commonly diagnosed cancer in Louisiana, and the 10th in the U.S. ¹

- It was the 22nd leading cause of cancer death in Louisiana and the 21st in the U.S. ¹

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

¹ Data source: Centers for Disease Control and Prevention
² Data source: American Cancer Society, Cancer Facts & Figures 2017
* ICD_O_3/WHO 2008 code:C739; excluding ICD-O-3 histology (type): 9050-9055, 9140, 9590-9992
Thyroid Cancer Incidence Rates\(^1\) Louisiana vs. U.S.,\(^2\) 2009-2013

<table>
<thead>
<tr>
<th></th>
<th>White Male</th>
<th>Black Male</th>
<th>White Female</th>
<th>Black Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Louisiana</td>
<td>7.6</td>
<td>3.6</td>
<td>21.9</td>
<td>12.4</td>
</tr>
<tr>
<td>U.S.</td>
<td>7.4</td>
<td>3.6</td>
<td>21.9</td>
<td>12.4</td>
</tr>
</tbody>
</table>

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, 2009-2013

Louisiana:
Rate: 12.4 per 100,000
Rank: 38th
Thyroid Cancer: Age-Specific Incidence Rates, Louisiana*, 2009-2013

U.S. data source: 18 SEER registries.

* Black Male Age-Specific Incidence Rates could not be displayed due to fewer than 16 cases.
Thyroid Cancer: Age-Specific Incidence Rates by Gender, 2009-2013

U.S. data source: 18 SEER registries.
Thyroid Cancer: Age-Specific Incidence Rates by Race, 2009-2013

U.S. data source: 18 SEER registries.
Thyroid Cancer Incidence\textsuperscript{1,2} by Region: Louisiana, Whites, 2009-2013

\begin{itemize}
\item \textsuperscript{1}Age-adjusted to the 2000 U.S. standard population.
\item \textsuperscript{2}Data source for the U.S. was the 18 SEER registries.
\item * Incidence rate of regions/Louisiana is significantly different from that of the U.S.
\end{itemize}
Thyroid Cancer Incidence\textsuperscript{1,2} by Region: Louisiana, Blacks, 2009-2013

\begin{itemize}
\item New Orleans: 8.4
\item Baton Rouge: 7.6
\item Southeast: 9.6
\item Acadiana: 7.4
\item Southwest: 7.6
\item Central: 9.8
\item Northwest: 7.9
\item Northeast: 7.6
\item LA: 8.1
\item U.S.: 8.3
\end{itemize}

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

\textsuperscript{2} Data source for the U.S. was the 18 SEER registries.
Thyroid Cancer:
Trends of Incidence Rates\textsuperscript{1,2}, Whites, 1988-2013

\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.
\textsuperscript{2} U.S. data source: 18 SEER registries.
Thyroid Cancer: Trends of Incidence Rates\textsuperscript{1,2}, Blacks*, 1988-2013

\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.
\textsuperscript{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\textsuperscript{1}, Louisiana vs. US\textsuperscript{2}, 2009-2013

Rate Per 100,000

- **White Male**: Louisiana 0.4, U.S. 0.5
- **White Female**: Louisiana 0.4, U.S. 0.5
- **Black Male\textsuperscript{*}**: Louisiana 0.4, U.S. 0.6
- **Black Female**: Louisiana 0.4, U.S. 0.5

\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.
\textsuperscript{2} Data source: National Center of Health Statistics (NCHS).
\textsuperscript{*} LA black male mortality rate, 2009-2013, could not displayed due to small case counts.
Mortality Rates of Thyroid Cancer in the U.S., All Races, Both Sexes, 2009-2013

Louisiana:
Rate: 0.4 per 100,000
Rank: 45th
Thyroid Cancer: Trends of Mortality Rates\textsuperscript{1,2,3}, Whites, 1988-2013

\textsuperscript{1} Adjusted to the 2000 U.S. standard population.
\textsuperscript{2} Data source: National Center of Health Statistics (NCHS).
\textsuperscript{3} LA male and female mortality trends could not be displayed due to lack of cases.
Thyroid Cancer: Trends of Mortality Rates\textsuperscript{1,2,3}, Blacks, 1988-2013

1 Age-adjusted to the 2000 U.S. standard population.
2 Data source: National Center of Health Statistics (NCHS).
3 LA male and female mortality trends could not be displayed due to small case counts.
Thyroid Cancer: Trends of Incidence and Mortality Rates\(^1\), by Race, Louisiana, 1988-2013

*APCs were calculated using weighted least squares method.

\(^1\)LA mortality trends by race could not be displayed due to small case counts.
Thyroid Cancer: Trends of Incidence and Mortality Rates\(^1\), by Gender, Louisiana, 1988-2013

*APCs were calculated using weighted least squares method.

\(^1\)LA mortality trends by race could not be displayed due to lack of cases.
Thyroid Cancer: Louisiana
5-Year Relative Survival by Stage\(^1\), All Races, Both Sexes, 2006-2012

The stage distribution is based on Derived Summary Stage 2000.

Percent of Cases by Stage

- Localized: 75%
- Regional: 20%
- Distant: 4%
- Unstaged: 1%

\(^1\) The stage distribution is based on Derived Summary Stage 2000.
Thyroid Cancer: Louisiana
5-Year Relative Survival by Stage\textsuperscript{1}, White Males, 2006-2012

\begin{itemize}
\item Localized: 98.8%
\item Regional: 87.1%
\item Distant: 42.4%
\end{itemize}

Percent of Cases by Stage\textsuperscript{2}

\begin{itemize}
\item Localized: 67%
\item Regional: 27%
\item Distant: 6%
\end{itemize}

\textsuperscript{1} The stage distribution is based on Derived Summary Stage 2000.
\textsuperscript{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\(^1\), White Females, 2006-2012

![Bar Chart](image)

Percent of Cases by Stage

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

\(^1\) The stage distribution is based on Derived Summary Stage 2000.
Thyroid Cancer: Louisiana
5-Year Relative Survival by Stage\textsuperscript{1}, Black Males, 2006-2012

\begin{figure}
\begin{center}
\begin{tikzpicture}
\begin{axis}[
    title={5-Year Relative survival rate(\%)},
    ybar,
    ymajorgrids=true,
    bar width=7pt,
    width=\textwidth,
    height=0.6\textwidth,
    symbolic y coords={100\%,98\%,96\%,94\%,92\%,90\%,88\%,86\%,84\%},
    enlarge y limits=0.15,
    nodes near coords,
    nodes near coords align={vertical},
]
\addplot+[blue,fill=blue!80!green] coordinates {
    (Localized, 97.9)
    (Regional, 89.8)
};
\end{axis}
\end{tikzpicture}
\end{center}
\end{figure}

\begin{figure}
\begin{center}
\begin{tikzpicture}
\begin{axis}[
    title={Percent of Cases by Stage\textsuperscript{2}},
    ybar,ybar legend,
    ymajorgrids=true,
    bar width=7pt,
    width=\textwidth,
    height=0.5\textwidth,
    symbolic y coords={Localized,Regional},
    enlarge y limits=0.15,
    legend style={at={(0.5,-0.2)},anchor=north},
]
\addplot+[blue,fill=blue!80!green] coordinates {
    (Localized, 80\%)
    (Regional, 20\%)
};
\end{axis}
\end{tikzpicture}
\end{center}
\end{figure}

\textsuperscript{1} The stage distribution is based on Derived Summary Stage 2000.
\textsuperscript{2} The survival rates for distant and unstaged cases could not be displayed due to small case counts.
Thyroid Cancer: Louisiana
5-Year Relative Survival by Stage\(^1\), Black Females, 2006-2012

Percent of Cases by Stage\(^2\)

- **Localized** 85%
- **Regional** 11%
- **Distant** 4%

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

\(^2\) The survival rate for unstaged cases could not be displayed due to small case counts.

[LSU Health New Orleans]

[Louisiana Tumor Registry]
Data Sources


For Incidence:
- SEER*DMS - LTR 1988-2013, June 7, 2016

For Mortality:

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

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  - Medical records offices
  - Pathology laboratories
  - Physician offices and clinics
  - Hospice programs and nursing homes
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Editors
Shuang Yang, MPH
Meichin Hsieh, PhD, MSPH, CTR
Lauren Maniscalco, MPH
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