Louisiana Cancer Facts & Figures, Stomach Cancer

Louisiana Tumor Registry

January 5, 2016
**Stomach Cancer***

- Stomach cancer was the 17th most commonly diagnosed cancer in both the U.S. and in Louisiana.¹

- It was the 13th leading cause of cancer death in Louisiana, and the 16th in the U.S.¹

- About 400 new stomach cancer cases are expected to be diagnosed and about 200 persons are expected to die of this cancer in Louisiana in 2016.²

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¹ Data source: Centers for Disease Control and Prevention

² Data source: American Cancer Society, Cancer Facts & Figures 2016

Stomach Cancer: Incidence Rates\(^1\), Louisiana vs. US\(^2\) 2009-2013

- Age-adjusted to the 2000 U.S. standard population.
- Incidence data source: 18 SEER registries.
- Incidence rate of Louisiana is significantly different from that of the U.S.

<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>8.3</td>
<td>17.5</td>
<td>3.7</td>
<td>9.4</td>
</tr>
<tr>
<td>U.S.</td>
<td>9.1</td>
<td>14</td>
<td>4.5</td>
<td>8.1</td>
</tr>
</tbody>
</table>

\(^{1}\) Incidence rate of Louisiana is significantly different from that of the U.S.
Incidence Rates of Stomach Cancer in the U.S., All Races, Both Sexes, 2009-2013

Louisiana: Rate: 7.6 per 100,000
Rank: 7th
Stomach Cancer: Age-Specific Incidence Rates, Louisiana, 2009-2013

U.S. data source: 18 SEER registries.

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Stomach Cancer: Age-Specific Incidence Rates by Gender, 2009-2013

U.S. data source: 18 SEER registries.

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

U.S. data source: 18 SEER registries.
Stomach Cancer Incidence$^{1,2}$ by Region: Louisiana, Whites, 2009-2013

1 Age-adjusted to the 2000 U.S. standard population.
2 Data source for the U.S. was the 18 SEER registries.

* Incidence rate of regions/Louisiana is significantly different from that of the U.S.
Stomach Cancer Incidence\(^1,2\) by Region: Louisiana, Blacks, 2009-2013

<table>
<thead>
<tr>
<th>Region</th>
<th>Rate (per 100,000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Orleans</td>
<td>12.4</td>
</tr>
<tr>
<td>Baton Rouge</td>
<td>12.5</td>
</tr>
<tr>
<td>Southeast</td>
<td>15.7*</td>
</tr>
<tr>
<td>Acadiana</td>
<td>13.1</td>
</tr>
<tr>
<td>Southwest</td>
<td>12.7</td>
</tr>
<tr>
<td>Central</td>
<td>12.5</td>
</tr>
<tr>
<td>Northwest</td>
<td>13.7*</td>
</tr>
<tr>
<td>Northeast</td>
<td>10.1</td>
</tr>
<tr>
<td>LA</td>
<td>12.8*</td>
</tr>
<tr>
<td>U.S.</td>
<td>10.6</td>
</tr>
</tbody>
</table>

\(^1\) Age-adjusted to the 2000 U.S. standard population.
\(^2\) Data source for the U.S. was the 18 SEER registries.

* Incidence rate of regions/Louisiana is significantly different from that of the U.S.
Stomach Cancer: Trends of Incidence Rates\textsuperscript{1,2}, Whites, 1988-2013

\begin{itemize}
  \item \textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.
  \item \textsuperscript{2} U.S. data source: 18 SEER registries.
\end{itemize}
Stomach 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.
Stomach Cancer: Mortality Rates\(^1\), Louisiana vs. US\(^2\), 2009-2013

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

\* The rate of Louisiana is significantly different from that of the U.S.

**Rate Per 100,000**

<table>
<thead>
<tr>
<th></th>
<th>Louisiana</th>
<th>U.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Male</td>
<td>3.9</td>
<td>3.9</td>
</tr>
<tr>
<td>White Female</td>
<td>1.9</td>
<td>2.1</td>
</tr>
<tr>
<td>Black Male</td>
<td>12.4</td>
<td>8.8</td>
</tr>
<tr>
<td>Black Female</td>
<td>5.8</td>
<td>4.2</td>
</tr>
</tbody>
</table>

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

* The rate of Louisiana is significantly different from that of the U.S.
Mortality Rates of Stomach Cancer in the U.S., All Races, Both Sexes, 2009-2013

Louisiana:
Rate: 4.3 per 100,000
Rank: 4th
Mortality Rates of Stomach Cancer in Louisiana, All Races, Both Sexes, 2009-2013

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

Quantile Interval

United States
Rate (95% C.I.)
3.3 (3.3 - 3.3)

Louisiana
Rate (95% C.I.)
4.3 (4.0 - 4.5)
Stomach Cancer: Trends of Mortality Rates\textsuperscript{1,2}, Whites, 1988-2013

\textsuperscript{1} Adjusted to the 2000 U.S. standard population.
\textsuperscript{2} Data source: National Center of Health Statistics (NCHS).
Stomach Cancer: Trends of Mortality Rates\textsuperscript{1,2}, Blacks, 1988-2013

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

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\textbf{80}  
\textbf{40}  
\textbf{0}  

\textbf{Year of Death}  

\begin{itemize}
\item U.S. Male
\item U.S. Female
\item LA Male
\item LA Female
\end{itemize}

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Stomach Cancer: Trends of Incidence and Mortality Rates, by Race, Louisiana, 1988-2013

*APCs were calculated using weighted least squares method
Stomach Cancer: Trends of Incidence and Mortality Rates, by Gender, Louisiana, 1988-2013

*APCs were calculated using weighted least squares method*
Stomach Cancer: Louisiana
5-Year Relative Survival by Stage\(^1\), All Races, Both Sexes, 2006-2012

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

Percent of Cases by Stage

- Localized: 33%
- Regional: 27%
- Distant: 33%
- Unstaged: 7%

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

5-Year Relative survival rate (%)

- Localized: 59.9%
- Regional: 29.6%
- Distant: 24.1%
- Unstaged: 2.9%

Percent of Cases by Stage

- Localized: 37%
- Regional: 24%
- Distant: 30%
- Unstaged: 9%

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

<table>
<thead>
<tr>
<th>Stage</th>
<th>Percent of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localized</td>
<td>26%</td>
</tr>
<tr>
<td>Regional</td>
<td>28%</td>
</tr>
<tr>
<td>Distant</td>
<td>40%</td>
</tr>
<tr>
<td>Unstaged</td>
<td>6%</td>
</tr>
</tbody>
</table>

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

5-Year Relative survival rate(%)  
- Localized: 55.8%
- Regional: 18.8%
- Distant: 31.3%
- Unstaged: 0%

Percent of Cases by Stage
- Localized: 30%
- Regional: 31%
- Distant: 30%
- Unstaged: 9%

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


For Incidence:
• Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, Nov 2015 Sub (2000-2013) <Katrina/Rita Population Adjustment>
• 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

• Hospital cancer registries (http://louisianatumorregistry.lsuhsc.edu/)
• Louisiana Cancer Registrars’ Association (http://www.lcra-usa.org/)
• 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)
• School of Public Health, LSU Health Sciences Center–New Orleans
• Louisiana Cancer and Lung Trust Fund Board
• Coroners’ offices
Sources of LTR Funding

- National Cancer Institute, SEER Program
- National Program of Cancer Registries, CDC
- Louisiana Health Care Services Division
Questions?

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