Lung & Bronchus Cancer

• Lung cancer was the 2nd most common cancer and the leading cause of cancer deaths in Louisiana from 2009 to 2013.¹

• Between 2009 and 2013, the Louisiana incidence rate for lung cancer ranked 9th and the mortality rate ranked 8th in the nation.¹

• About 3,730 new lung cancers are expected to be diagnosed and about 2,620 patients are expected to die of lung cancer in 2016 in Louisiana.²

1. Data source: NCI state cancer profile.
Lung & Bronchus Cancer: Age-Specific Incidence Rates, Louisiana, 2009-2013

Rate Per 100,000

Age at Diagnosis


Black Male
White Male
White Female
Black Female

LSU Health
NEW ORLEANS
Louisiana Tumor Registry
Lung & Bronchus Cancer: Age-Specific Incidence Rates by Gender, 2009-2013

U.S. data source: 18 SEER registries.

Rate Per 100,000

Age at Diagnosis

LA Male
U.S. Male
LA Female
U.S. Female
Lung & Bronchus Cancer: Age-Specific Incidence Rates by Race, 2009-2013

U.S. data source: 18 SEER registries.
Lung & Bronchus Cancer: Incidence Rates\(^1\), Louisiana vs. U.S.,\(^2\) 2009-2013

<table>
<thead>
<tr>
<th></th>
<th>Louisiana</th>
<th>U.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Males</td>
<td>86.8</td>
<td>68.1</td>
</tr>
<tr>
<td>Black Males</td>
<td>110.6</td>
<td>87.3</td>
</tr>
<tr>
<td>White Females</td>
<td>57.8</td>
<td>51.8</td>
</tr>
<tr>
<td>Black Females</td>
<td>50.8</td>
<td>50.0</td>
</tr>
</tbody>
</table>

\(^1\) 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.
Lung & Bronchus Cancer Incidence\textsuperscript{1,2} by Louisiana Region: Whites, 2009-2013

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

<table>
<thead>
<tr>
<th>Region</th>
<th>Rate per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Orleans</td>
<td>76.5*</td>
</tr>
<tr>
<td>Baton Rouge</td>
<td>69.6</td>
</tr>
<tr>
<td>Southeast</td>
<td>79.0*</td>
</tr>
<tr>
<td>Acadiana</td>
<td>81.7*</td>
</tr>
<tr>
<td>Southwest</td>
<td>77.7*</td>
</tr>
<tr>
<td>Central</td>
<td>76.5*</td>
</tr>
<tr>
<td>Northwest</td>
<td>73.7*</td>
</tr>
<tr>
<td>Northeast</td>
<td>76.3*</td>
</tr>
<tr>
<td>LA</td>
<td>75.3*</td>
</tr>
<tr>
<td>U.S.</td>
<td>65.1</td>
</tr>
</tbody>
</table>

\(^1\) Age-adjusted to the 2000 U.S. standard population.

\(^2\) Data source for U.S. was the 18 SEER registries.

* Incidence rate of regions/Louisiana is significantly different from that of the U.S.
Lung & Bronchus Cancer: Trend 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}
Lung & Bronchus Cancer:
Trend of Incidence Rates\textsuperscript{1,2}, Blacks 1988-2013

1 Age-adjusted to the 2000 U.S. standard population.
2 U.S. data source: 18 SEER registries.
Lung & Bronchus Cancer: Mortality Rates\(^1\), Louisiana vs. U.S.,\(^2\) 2009-2013

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

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

* Mortality rate of Louisiana is significantly different from that of the U.S.
Lung & Bronchus Cancer:
Trends of Mortality Rates\textsuperscript{1,2}, Whites, 1988-2013

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

\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.
\textsuperscript{2} Data source: National Center of Health Statistics (NCHS).
Lung and Bronchus: Louisiana, 1988-2013
Trends of Incidence and Mortality Rates by Gender

*APCs were calculated using weighted least squares method
Lung and Bronchus: Louisiana, 1988-2013
Trends of Incidence and Mortality Rates by Race

*APCs were calculated using weighted least squares method
Lung and Bronchus Cancer\(^1\): Louisiana 5-Year Relative Survival by Stage\(^2\), White Males, 2006-2012

<table>
<thead>
<tr>
<th>Stage Distribution (%) 2006-2012</th>
<th>5-year Relative Survival Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localized</td>
<td>37.8%</td>
</tr>
<tr>
<td>Regional</td>
<td>21.5%</td>
</tr>
<tr>
<td>Distant</td>
<td>2.8%</td>
</tr>
<tr>
<td>Unstaged</td>
<td>10.4%</td>
</tr>
</tbody>
</table>

\(^1\) Lung and Bronchus cancer includes first primary only (sequence number 0 or 1).

\(^2\) The stage distribution is based on Summary Stage 2000.
Lung and Bronchus Cancer\textsuperscript{1}: Louisiana 5-Year Relative Survival by Stage\textsuperscript{2}, Black Males, 2006-2012

Stage Distribution (\%) 2006-2012

\begin{itemize}
  \item Localized: 36.1\%
  \item Regional: 19.0\%
  \item Distant: 2.2\%
  \item Unstaged: 7.7\%
\end{itemize}

\textsuperscript{1} Lung and Bronchus cancer includes first primary only (sequence number 0 or 1).
\textsuperscript{2} The stage distribution is based on Summary Stage 2000.
Lung and Bronchus Cancer\textsuperscript{1}: Louisiana 5-Year Relative Survival by Stage\textsuperscript{2}, White Females, 2006-2012

Stage Distribution (\%) 2006-2012

- Localized: 48.5%
- Regional: 24.6%
- Distant: 55%
- Unstaged: 2%

\textsuperscript{1} Lung and Bronchus cancer includes first primary only (sequence number 0 or 1).
\textsuperscript{2} The stage distribution is based on Summary Stage 2000.
Lung and Bronchus Cancer\(^1\): Louisiana 5-Year Relative Survival by Stage\(^2\), Black Females, 2006-2012

Stage Distribution (%) 2006-2012

<table>
<thead>
<tr>
<th>Stage</th>
<th>Percent of Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localized</td>
<td>15%</td>
</tr>
<tr>
<td>Regional</td>
<td>24%</td>
</tr>
<tr>
<td>Distant</td>
<td>59%</td>
</tr>
<tr>
<td>Unstaged</td>
<td>2%</td>
</tr>
</tbody>
</table>

1 Lung and Bronchus cancer includes first primary only (sequence number 0 or 1).
2 The stage distribution is based on 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
Editors
Xiangrong Li, MD, MSPH
Meichin Hsieh, PhD, MSPH, CTR
Lauren Maniscalco, MPH
Xiaocheng Wu, MD, MPH, CTR

Contributors
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