Louisiana Cancer Facts & Figures, Pancreatic Cancer, 2016

Louisiana Tumor Registry

September, 2016
Pancreatic Cancer*

• Pancreatic cancer was the 10th most commonly diagnosed cancer in Louisiana, and 12th in the U.S.\(^1\)

• It was the 5th leading cause of cancer death in both Louisiana and the U.S.\(^1\)

• About 850 new Pancreatic cancer cases are expected to be diagnosed and about 650 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

Pancreatic Cancer: Incidence Rates\(^1\)
Louisiana vs. U.S.,\(^2\) 2009-2013

<table>
<thead>
<tr>
<th></th>
<th>U.S.</th>
<th>Louisiana</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Male</td>
<td>14.1</td>
<td>14.9</td>
</tr>
<tr>
<td>Black Male</td>
<td>17.2</td>
<td>16.6</td>
</tr>
<tr>
<td>White Female</td>
<td>10.9</td>
<td>11.7</td>
</tr>
<tr>
<td>Black Female</td>
<td>14.2</td>
<td>13.6</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.
Incidence Rates of Pancreatic Cancer in the U.S.
All Races, Both Sexes, 2009-2013

Louisiana:
Rate: 13.6 per 100,000
Rank: 5th
Pancreatic Cancer: Age-Specific Incidence Rates
Louisiana, 2009-2013

U.S. data source: 18 SEER registries.

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

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

U.S. data source: 18 SEER registries.

Rate Per 100,000

Age at Diagnosis

LA White
U.S. White
LA Black
U.S. Black

U.S. Health
NEW ORLEANS
Louisiana Tumor Registry
Incidence Rates of Pancreatic Cancer in Louisiana, All Races, Both Sexes, 2009-2013

Age-Adjusted Annual Incidence Rate
(Cases per 100,000)

Quantile Interval

- Blue: 357.8 to 460.6
- Light Blue: 460.6 to 473.9
- Light Yellow: 473.9 to 483.7
- Orange: 483.7 to 496.1
- Dark Red: 496.1 to 592.3

US (SEER + NPCR) Rate (95% C.I.)
448.4 (448.1 - 448.7)

Louisiana Rate (95% C.I.)
482.3 (479.5 - 485.1)
Pancreatic Cancer Incidence Rates\textsuperscript{1,2} by Region: Louisiana, Whites, 2009-2013

<table>
<thead>
<tr>
<th>Region</th>
<th>Rate Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>New orleans</td>
<td>13.5</td>
</tr>
<tr>
<td>Baton Rouge</td>
<td>12.6</td>
</tr>
<tr>
<td>Southeast</td>
<td>12.9</td>
</tr>
<tr>
<td>Acadian</td>
<td>13.7</td>
</tr>
<tr>
<td>Southwest</td>
<td>13.8</td>
</tr>
<tr>
<td>Central North</td>
<td>14.9*</td>
</tr>
<tr>
<td>Northwest</td>
<td>12.9</td>
</tr>
<tr>
<td>Northeast</td>
<td>12.9</td>
</tr>
<tr>
<td>LA</td>
<td>13.2*</td>
</tr>
<tr>
<td>US</td>
<td>12.4</td>
</tr>
</tbody>
</table>

\textsuperscript{1} Age-adjusted to the 2000 U.S. standard population.
\textsuperscript{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.
Pancreatic Cancer Incidence Rates\(^1,2\) by Region: Louisiana, Blacks, 2009-2013

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 U.S.
Pancreatic Cancer: Trends of Incidence Rates\textsuperscript{1,2} Whites, 1988-2013

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

<table>
<thead>
<tr>
<th>Race</th>
<th>Gender</th>
<th>Rate Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.</td>
<td>White Male</td>
<td>12.5</td>
</tr>
<tr>
<td>Louisiana</td>
<td>White Male</td>
<td>14.7</td>
</tr>
<tr>
<td></td>
<td>White Female</td>
<td>9.4</td>
</tr>
<tr>
<td></td>
<td>White Female</td>
<td>10.7</td>
</tr>
<tr>
<td></td>
<td>Black Male</td>
<td>15.0</td>
</tr>
<tr>
<td></td>
<td>Black Male</td>
<td>14.3</td>
</tr>
<tr>
<td></td>
<td>Black Female</td>
<td>12.2</td>
</tr>
<tr>
<td></td>
<td>Black Female</td>
<td>12.8</td>
</tr>
</tbody>
</table>

\(^1\) Age-adjusted to the 2000 U.S. standard population.
\(^2\) Data source: National Center for Health Statistics (NCHS).
* The rate of Louisiana is significantly different from that of the U.S.
Mortality Rates of Pancreatic Cancer in the U.S.
All Races, Both Sexes, 2009-2013

Louisiana:
Rate: 12.8 per 100,000
Rank: 2nd
Mortality Rates of Pancreatic Cancer in Louisiana, All Races, Both Sexes, 2009-2013
Pancreatic 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).

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1 Adjusted to the 2000 U.S. standard population.
2 Data source: National Center of Health Statistics (NCHS).
Pancreatic 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).
Pancreatic Cancer: Trends of Incidence and Mortality Rates by Race, Louisiana, 1988-2013

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

*APCs were calculated using weighted least squares method

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

\[\text{Percent of Cases by Stage} \]

- Localized: 12%
- Regional: 28%
- Distant: 54%
- Unstaged: 6%

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

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

Percent of Cases by Stage

- Unstaged: 6%
- Localized: 15%
- Regional: 28%
- Distant: 51%

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

\[\begin{array}{|c|c|}
\hline
\text{Stage} & \text{5-Year Relative Survival Rate} (\%) \\
\hline
\text{Localized} & 16.2 \\
\text{Regional} & 8.9 \\
\text{Distant} & 1.1 \\
\text{Unstaged} & 13.5 \\
\hline
\end{array}\]

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

\begin{itemize}
\item Localized: 13\%
\item Regional: 27\%
\item Distant: 52\%
\item Unstaged: 8\%
\end{itemize}

\textsuperscript{1} The stage distribution is based on Derived Summary Stage 2000.
\* The survival rate of unstaged cases could not be calculated due to small case counts.
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/](http://louisianatumorregistry.lsuhsc.edu/))
- 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](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
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