Louisiana Cancer Facts & Figures, Myeloma

Louisiana Tumor Registry

January 5, 2016
Myeloma*

• Myeloma was the 18th most commonly diagnosed cancer in Louisiana and the 19th in the U.S.¹

• It was the 16th leading cause of cancer death in Louisiana and the 15th in the U.S.¹

• About 470 new myeloma cases are expected to be diagnosed and about 190 persons are expected to die of this cancer in Louisiana in 2017.²

¹ Data source: Centers for Disease Control and Prevention
² Data source: American Cancer Society, Cancer Facts & Figures 2016
Myeloma: Incidence Rates\(^1\), Louisiana vs. US,\(^2\) 2009-2013

<table>
<thead>
<tr>
<th></th>
<th>Louisiana</th>
<th>U.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Male</td>
<td>6.9</td>
<td>7.7</td>
</tr>
<tr>
<td>Black Male</td>
<td>14.3</td>
<td>15.7</td>
</tr>
<tr>
<td>White Female</td>
<td>4.1</td>
<td>4.5</td>
</tr>
<tr>
<td>Black Female</td>
<td>10.6</td>
<td>11.5</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.
Myeloma: Age-Specific Incidence Rates by Race and Sex, Louisiana, 2009-2013

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

U.S. data source: 18 SEER registries.

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

U.S. data source: 18 SEER registries.

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

\begin{figure}
\centering
\includegraphics[width=\textwidth]{myeloma_incidence_chart.png}
\end{figure}

\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}
Myeloma: 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.
Myeloma:
Trends of Incidence Rates\textsuperscript{1,2}, Blacks, 2000-2013

1 Age-adjusted to the 2000 U.S. standard population.
2 U.S. data source: 18 SEER registries.
Myeloma: Mortality Rates\textsuperscript{1}, Louisiana vs. US\textsuperscript{2}, 2009-2013

<table>
<thead>
<tr>
<th></th>
<th>Rate Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Male</td>
<td>Louisiana: 3.9</td>
</tr>
<tr>
<td>White Female</td>
<td>Louisiana: 2.4</td>
</tr>
<tr>
<td>Black Male</td>
<td>Louisiana: 8.7</td>
</tr>
<tr>
<td>Black Female</td>
<td>Louisiana: 4.9</td>
</tr>
</tbody>
</table>

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

\textsuperscript{2} Data source: National Center of Health Statistics (NCHS).
Myeloma: Trends of Mortality Rates\textsuperscript{1,2}, Whites, 1988-2013

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

APCs were calculated using weighted least squares method.

- White Incidence (APC: 0.4)
- Black Incidence (APC: 0.7*)
- White Mortality (APC: -1.2*)
- Black Mortality (APC: -0.6)
Myeloma: Trends of Incidence and Mortality Rates, by Gender, Louisiana, 1988-2013

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

61.6

44.7

5-Year Relative survival rate(%)  

 localized

distant

Percent of Cases by Stage

Localized 6%

Distant 94%

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

\[ \begin{array}{c|c|c}
\text{Stage} & \text{5-Year Relative Survival Rate} & \text{Percent of Cases} \\
\hline
\text{Localized} & 60.3 & 94\% \\
\text{Distant} & 46.1 & 6\% \\
\hline
\end{array} \]

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

Percent of Cases by Stage

- **Localized**: 6% (57.7%)
- **Distant**: 94% (43.4%)

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

![Bar chart showing 5-year relative survival rates by stage.]

- **Localized:** 52.9%
- **Distant:** 49.2%

![Pie chart showing percent of cases by stages.]

- **Localized:** 6%
- **Distant:** 94%

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

\begin{itemize}
\item \textbf{Localized}: 73.8%
\item \textbf{Distant}: 40.3%
\end{itemize}

\textsuperscript{1} The stage distribution is based on Derived Summary Stage 2000.
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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