Cancer Rates for McHenry County 2000-2004

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3/24/08
Cancer Surveillance

- The National Cancer Institute’s Surveillance, Epidemiology and End Results Program (SEER)
  - Collects and publishes incidence and survival data from population-based cancer registries
  - Collectively, geographic areas selected reflect the US population
  - Analyzes cancer mortality data collected from the National Vital Statistics System

- Illinois State Cancer Registry
  - Collects cancer incidence data
  - All medical facilities report cancer cases
Illinois State Cancer Registry

State cancer registries are designed to:

- Monitor cancer trends over time.
- Determine cancer patterns in various populations.
- Guide planning and evaluation of cancer control programs (e.g., determine whether prevention, screening, and treatment efforts are making a difference).
- Help set priorities for allocating health resources.
- Advance clinical, epidemiologic, and health services research.
- Provide information for a national database of cancer incidence.
Cancer Trends for McHenry County

- McHenry County has seen a falling trend in cancer death rates over the 2000-2004 rate period.
- McHenry County death rates for all cancer sites are similar to the US death rates.
- McHenry County has seen similar trends in cancer incidence rates compared to Illinois.
- Lung cancer is the leading cause of death from cancer for both McHenry males and females, followed by prostate cancer for males and breast cancer for females.
Age-Adjusted Death Rates for All Cancer Sites Combined for 2000-2004

- US: 192.7 per 100,000 population
- Illinois: 201.4 per 100,000 population
- McHenry: 207.8 per 100,000 population
- Healthy People 2010: 159.9 per 100,000 population
McHenry County, 207.8 deaths per 100,000 people
Age-Adjusted Incidence Rates for All Cancer Sites Combined for 2000-2004

- **US**: 470.1
- **Illinois**: 484.3
- **McHenry**: 494.3
Comparing Illinois and McHenry County’s 5-Year Incidence Rates for All Cancer Sites Combined

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Illinois, Males</strong></td>
<td>562.4</td>
<td>579.2</td>
<td>578.2</td>
</tr>
<tr>
<td><strong>McHenry, Males</strong></td>
<td>545.7</td>
<td>581.3</td>
<td>578.5</td>
</tr>
<tr>
<td><strong>Illinois, Females</strong></td>
<td>399.3</td>
<td>427.4</td>
<td>423.1</td>
</tr>
<tr>
<td><strong>McHenry, Females</strong></td>
<td>412.4</td>
<td>461.2</td>
<td>438.2</td>
</tr>
</tbody>
</table>
Leading Cancer Sites Among Both Sexes for McHenry County

<table>
<thead>
<tr>
<th>Site</th>
<th>Percentage of All Sites 2000-2004 3</th>
<th>Percentage of All Sites 1999-2003 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Breast</td>
<td>14.7 %</td>
<td>17.5 %</td>
</tr>
<tr>
<td>2. Prostate</td>
<td>14.2 %</td>
<td>13.3 %</td>
</tr>
<tr>
<td>3. Lung and Bronchus</td>
<td>13.3 %</td>
<td>13.2 %</td>
</tr>
<tr>
<td>4. Colon and Rectum</td>
<td>10.8 %</td>
<td>11.2 %</td>
</tr>
<tr>
<td>5. Urinary Bladder</td>
<td>4.8 %</td>
<td>4.8 %</td>
</tr>
<tr>
<td>6. Non-Hodgkin's Lymphomas</td>
<td>4.4 %</td>
<td>4.2 %</td>
</tr>
<tr>
<td>7. Melanoma of the Skin</td>
<td>4.2 %</td>
<td>4.0 %</td>
</tr>
<tr>
<td>8. Corpus and Uterus, NOS</td>
<td>3.2 %</td>
<td>2.9 %</td>
</tr>
<tr>
<td>9. Kidney and Renal Pelvis</td>
<td>2.9 %</td>
<td>3.0 %</td>
</tr>
<tr>
<td>10. Leukemia's</td>
<td>2.6 %</td>
<td>2.5 %</td>
</tr>
</tbody>
</table>
Top 5 Cancer Sites: Males in McHenry County 2000-2004

- **Prostate**: McHenry Rate 164.9, Illinois Rate 163.4, US Rates 168
- **Lung and Bronchus**: McHenry Rate 85.3, Illinois Rate 94.3, US Rates 81.2
- **Colon and Rectum**: McHenry Rate 65.4, Illinois Rate 70, US Rates 60.8
- **Urinary Bladder**: McHenry Rate 43.9, Illinois Rate 40.7, US Rates 37.3
- **Non-Hodgkin's Lymphomas**: McHenry Rate 24.8, Illinois Rate 23.6, US Rates 23.2
### Top 5 Cancer Sites: Females in McHenry County 2000-2004

<table>
<thead>
<tr>
<th>Cancer Site</th>
<th>McHenry Rate</th>
<th>Illinois Rate</th>
<th>US Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast (invasive)</td>
<td>125.2</td>
<td>126.2</td>
<td>127.8</td>
</tr>
<tr>
<td>Lung and Bronchus</td>
<td>60.3</td>
<td>57</td>
<td>52.3</td>
</tr>
<tr>
<td>Colon and Rectum</td>
<td>49.1</td>
<td>49.4</td>
<td>44.6</td>
</tr>
<tr>
<td>Corpus and Uterus, NOS</td>
<td>28.1</td>
<td>25.2</td>
<td>23.2</td>
</tr>
<tr>
<td>Non-Hodgkin’s Lymphomas</td>
<td>18.4</td>
<td>16.3</td>
<td>16.3</td>
</tr>
</tbody>
</table>
Probability of Developing Invasive Cancer Over a Lifetime, Males, US 2001 to 2003

- All Cancer Sites: 45.31% (1 in 2)
- Prostate: 17.12% (1 in 6)
- Lung & Bronchus: 8.02% (1 in 12)
- Colon & Rectum: 5.79% (1 in 17)
- Urinary Bladder: 3.61% (1 in 28)
- Non-Hodgkins Lymphomas: 2.14% (1 in 47)
- Melanoma of the Skin: 2.04% (1 in 49)
- Leukemia's: 1.49% (1 in 67)

- All Cancer Sites: 37.86% (1 in 3)
- Breast: 12.67% (1 in 8)
- Lung & Bronchus: 6.15% (1 in 16)
- Colon & Rectum: 5.37% (1 in 19)
- Urinary Bladder: 1.14% (1 in 87)
- Non-Hodgkin’s Lymphoma: 1.83% (1 in 55)
- Melanoma of the Skin: 1.38% (1 in 73)
- Corpus and Uterus, NOS: 2.49% (1 in 40)
- Leukemia’s: 1.05% (1 in 95)
Data Interpretation

- Observed variations in incidence and mortality may be:
  - Real$^3$
    - Reflect modifications in risk factor
    - Be a consequence of participation in screening and early detection programs
  - Not Real$^3$
    - Result of random fluctuations
    - Attributed to factors related to the estimation process
Resources

1. Department of Health and Human Services, Center for Disease Control and Prevention (CDC), National Program of Cancer Registries, http://www.cdc.gov/cancer/NPCR/about.htm


