A Look Back To Move Forward
Noble County

The state of Oklahoma has been in a downward health trend since the 1990’s, until recently. Through the efforts of the state and county health departments, state and local governments and the individual communities the health of Oklahomans is looking up. However, we could do more to improve the health of the citizens of Oklahoma.

This report focuses on the health factors for the citizens of Noble County. We will take a look back to discover what has been affecting the health of the citizens in order to move forward and make healthy, effective and safe changes for all.

<table>
<thead>
<tr>
<th>Inside this issue:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>County Demographics</td>
<td>2</td>
</tr>
<tr>
<td>Top 10 Leading Causes of Death</td>
<td>2</td>
</tr>
<tr>
<td>Nutrition &amp; Obesity</td>
<td>2</td>
</tr>
<tr>
<td>Top 10 Leading Causes of Death Table</td>
<td>3</td>
</tr>
<tr>
<td>Injury &amp; Violence</td>
<td>4</td>
</tr>
<tr>
<td>Tobacco use</td>
<td>4</td>
</tr>
<tr>
<td>Physical Activity, Wellness &amp; Diabetes</td>
<td>4</td>
</tr>
<tr>
<td>Teen Pregnancy</td>
<td>5</td>
</tr>
<tr>
<td>Poverty</td>
<td>5</td>
</tr>
<tr>
<td>OK By One—State Immunization Data</td>
<td>6</td>
</tr>
<tr>
<td>County Health Department Usage</td>
<td>7</td>
</tr>
<tr>
<td>Health Care Costs Summary</td>
<td>7</td>
</tr>
<tr>
<td>Turning Point</td>
<td>8</td>
</tr>
</tbody>
</table>
Demographics

- Population estimates
  - 3% increase from 1990 to 2000 (11,045 to 11,411)
  - 2% decrease from 2000 to 2004
  - Ranked 55th for growth in state 2000 Census
- Hispanic/Latino ethnicity = 2%
- Race
  - Whites = 86%
  - Native Americans = «Indian %»
  - Blacks = 2%
  - Other/Multiple = 4%
- Age
  - Under 5 = 6%
  - Over 64 = 15%
  - Median age = 38.3 years
- Housing units
  - Occupied = 4,504 (89%)
  - Vacant = 578 (11%)
- Disability (ages 21 to 64) = 19.8%
  - national = 19.2%  state = 21.5%
- Individuals below poverty = 12.8%
  - national = 12.4%  state = 14.7%

Top 10 Leading Causes of Death

The top 10 leading causes of death table on the next page displays a broad picture of the causes of death in Noble County. Since many health-related issues are unique to specific ages, this table provides causes of death by age group at a glance. The causes of death that are present across almost every age group have been highlighted. From 1983 to 1993 heart disease killed 618 people in Noble County and is still the leading cause of death among all age groups. According to the Centers for Disease Control, almost $400,000 is spent on each heart disease-related death. With an average of 42.8 deaths a year, heart disease accounts for almost $16 million a year in medical costs in Noble County.

Alzheimer’s disease and the complications associated with it have increased from the 15th ranked cause of death (1983-1993) to the 9th ranked cause of death in persons 65 and older accounting for a 425% increase in deaths.

Nutrition and Obesity

With the United States coming in as the most obese country in the world, health care costs related to obesity and poor nutrition are on the rise.

Of the 292 million people in the United States, 129 million are overweight or obese according to their body mass index (BMI). The number of obese (BMI > 29) and overweight (BMI 25-29) Oklahomans has been increasing at the same rate as the nation, and health care costs are reflecting this downward spiral of health. For persons under the age of 65, on average, health care costs are $395 more for obese individuals and are even greater for persons over the age of 65.

In 2002-2004, 18.3% (2,059) of people in Noble County were considered obese which accounted for an additional $813,305 in medical costs for the county. These costs are underestimated because they do not take into account the percentage of obese or overweight persons who are over the age of 65.
<table>
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<tr>
<th>Rank</th>
<th>0-4</th>
<th>05-14</th>
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<th>25-34</th>
<th>35-44</th>
<th>45-54</th>
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<td>TWO CAUSES TIED</td>
<td>PNEUMONITIS</td>
<td>LIVER DISEASE</td>
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Injury and Violence

Across the nation and the state of Oklahoma, unintentional and violence-related injuries are on the rise. Unintentional injuries account for the 4th leading cause of death in the United States and the 5th leading cause of death in Oklahoma from 1999-2002. For persons ages 1 to 44 in Oklahoma, unintentional injuries are the leading cause of death.

This trend does not change much in Noble County. Unintentional injuries are the leading cause of death from ages 5 to 44.

It is estimated that for every motor vehicle-related death $1.1 million in economic costs are incurred. For Noble County which has an average of 2 motor vehicle-related deaths a year, that translates to over $2 million a year. Violence-related injuries (homicide and suicide) in Noble County are ranked in the top 10 in five of the eight age groups (see Top 10 list on page 3).

Physical Activity, Wellness and Diabetes

The increasing inactivity of the U.S. population is contributing to an increase in numerous poor health-related outcomes. Physical inactivity robs the body of precious energy needed to function properly, in turn health declines and rates of various chronic diseases escalate.

According to the 2002-2004 Behavioral Risk Factor Surveillance System (BRFSS), it is estimated that 33.8% (3,803) of people in Noble County had no leisure activity in the past month at the time they were surveyed.

The BRFSS also indicated that 5.5% (619) of Noble County citizens have been diagnosed by a health professional as having diabetes. In 2002, the per capita annual healthcare costs for people with diabetes was $13,243 compared to $2,560 for people without diabetes. Persons with diabetes accumulated health care costs of $8,197,417.00 in one year for Noble County.

Tobacco Use

According to the 2005 State of the State’s Health Report, tobacco use among Oklahomans has remained fairly stable from 1990 to 2002. Oklahoma has been consistently higher in its tobacco use than the nation and is 30% higher than the nation on the amount of tobacco consumed per capita (103 packs vs. 79 packs).

Tobacco use is no longer just the problem of the individual but also the community as a whole. With health care costs on the rise, targeting areas such as tobacco use is an effective way to control those costs.

In 2002, the CDC estimated that a person that used tobacco accrued over $3,300 in health care costs per year. According to the Behavioral Risk Factor Surveillance System, it is estimated that 22.7% (2,554) of people in Noble County use tobacco of some sort. Medical costs accumulated by those persons are over $8 million a year for Noble County.
Teen Pregnancy

While births to teen mothers (age 15 to 19) are on the decline in both the U.S. and Oklahoma, Oklahoma has moved up in rank from 13th to 8th in the country. In 1993 the rate of teen births was 60.0 (per 1,000 15-19 year old females) in the U.S. and 66.6 in Oklahoma. In 2003, the rate decreased to 41.7 in the U.S. and 55.8 in Oklahoma, a decrease of 31% and 7%, respectively.

Children of teen mothers are more likely to display poor health and social outcomes than those of older mothers, such as premature birth, low birth weight, higher rates of abuse and neglect, and more likely to go to foster care or do poorly in school. Additionally, births to teen mothers accumulate $3,200 a year for each teenage birth, which is passed on to citizens.

According to Oklahoma Vital Statistics, Noble County had a teen birth rate of 55.8 in 2003 which was a 58% increase from 2002 (35.4) and a 100% increase since 1993 (27.9).

With an average of 19 births per year, teen pregnancy costs the citizens of Noble County $60,800.00 a year.

Poverty

As the nation advances in technology and the ability to detect and prevent disease at an earlier stage, persons that are impoverished carry a large burden of poor health outcomes. Higher incidences of unplanned or unwanted pregnancies, teen pregnancy, inadequate prenatal care, higher rates of low-birth-weight babies, infant deaths and low immunization rates are all associated with poverty along with a myriad of other adverse health outcomes.

According to the 2000 census, 12.8% of persons in Noble County for whom poverty status was known had an income below what was needed to live at the federal poverty level. Noble County is 13% below the state (14.7%) and 3% above the nation (12.4%) for persons with incomes below the federal poverty level.

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<table>
<thead>
<tr>
<th>Income to Poverty Ratio, Noble County, 2000 Census</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poverty level</td>
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<tr>
<td>Population</td>
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<tr>
<td>Cumulative Population</td>
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<td>% of Total</td>
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<td>Cumulative %</td>
</tr>
</tbody>
</table>
2003-04 Immunization Coverage Rates

4:3:1:3:3 Coverage by Location of Shots, Oklahoma, 2004

Oklahoma Children On Schedule by Antigen, 2004

**Note: County level data will be available soon.**
Health Care Costs Summary

**Cardiovascular Disease (Heart Disease)**
- Average 43 deaths a year
- $369,476.69 per death
- Total—$15,887,497.67 a year

**Obesity**
- 18.3% of population (2,059)
- $395.00 in additional medical costs per person
- Total—$813,305.00

**Motor Vehicle-Related Injury Death**
- Average 2 deaths per year
- $1,120,000.00 in economic costs per death
- Total—$2,240,000.00 a year

**Diabetes**
- 5.5% of population (619)
- $13,243.00 in healthcare costs a year
- Total—$8,197,417.00 a year

**Teen Pregnancy**
- Average of 19 births to teen mothers per year
- $3,200.00 in costs for each birth a year
- Total—$60,800.00 a year

**Tobacco Use**
- 22.7% of population (2,554)
- $3,300.00 in health care costs
- Total—$8,428,200.00 a year

Grand Total for Noble County:
$35,627,219.67
The Oklahoma Turning Point Initiative is public health improvement in action. The success of the Turning Point process involves a partnership between the state and county departments of health, local communities, and policy-makers. The Oklahoma Turning point engine is fueled by a community-based decision making process whereby local communities tap into the capacities, strengths, and vision of their citizens to create and promote positive, sustainable changes in the public health system, and the public’s health.