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 Tulsa 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.
Demographics

- Population estimates
  - 12% increase from 1990 to 2000
    (503,341 to 563,299)
  - 1% increase from 2000 to 2004
  - Ranked 31st for growth in state 2000 Census
- Hispanic/Latino ethnicity = 6%
- Race
  - Whites = 75%
  - Native Americans = 5%
  - Blacks = 11%
  - Other/Multiple = 9%
- Age
  - Under 5 = 7%
  - Over 64 = 12%
  - Median age = 34.4 years
- Housing units
  - Occupied = 226,892 (93%)
  - Vacant = 17,061 (7%)
- Disability (ages 21 to 64) = 19.1%
  - national = 19.2% state = 21.5%
- Individuals below poverty = 11.6%
  - national = 12.4% state = 14.7%

Tulsa County Population Growth with Projections

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 Tulsa 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 16,113 people in Tulsa 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 1567.2 deaths a year, heart disease accounts for over $579 million a year in medical costs in Tulsa County.

Alzheimer’s disease and the complications associated with it have increased from the 10th ranked cause of death (1983-1993) to the 6th ranked cause of death in persons 65 and older accounting for a 229% 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, 21.2% of people in Tulsa County were considered obese which accounted for an additional $47,757,870 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.
# Top 10 Causes of Death by Age Group

## Tulsa County 1993-2003

<table>
<thead>
<tr>
<th>Rank</th>
<th>0-4</th>
<th>05-14</th>
<th>15-24</th>
<th>25-34</th>
<th>35-44</th>
<th>45-54</th>
<th>55-64</th>
<th>65+</th>
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<td>CANCER</td>
<td>CANCER</td>
<td>HEART DISEASE</td>
<td>HEART DISEASE</td>
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<td>55</td>
<td>324</td>
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<td>HOMICIDE/LEGAL</td>
<td>SUICIDE</td>
<td>HEART DISEASE</td>
<td>HEART DISEASE</td>
<td>HEART DISEASE</td>
<td>CANCER</td>
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<td>SIDS</td>
<td>HOMICIDE/LEGAL</td>
<td>SUICIDE</td>
<td>CANCER</td>
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<td>UNINTENT. INJURY</td>
<td>BRONCHITIS/EMPHYSEMA/ASTHMA</td>
<td>STROKE</td>
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<td>CANCER</td>
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<td>SUICIDE</td>
<td>SUICIDE</td>
<td>STROKE</td>
<td>BRONCHITIS/EMPHYSEMA/ASTHMA</td>
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<td>HOMICIDE/LEGAL</td>
<td>HIV</td>
<td>LIVER DISEASE</td>
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<tr>
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<td>INFLUENZA/PNEUMONIA</td>
<td>BRONCHITIS/EMPHYSEMA/ASTHMA</td>
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<td>DIABETES MELLITUS</td>
<td>HIV</td>
<td>SUICIDE</td>
<td>Atherosclerosis</td>
<td>SUICIDE</td>
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<td>10</td>
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<td>THREE CAUSES TIED</td>
<td>STROKE</td>
<td>INFLUENZA/PNEUMONIA</td>
<td>INFLUENZA/PNEUMONIA</td>
<td>INFLUENZA/PNEUMONIA</td>
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<td>41</td>
<td>55</td>
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<td>497</td>
<td>664</td>
</tr>
</tbody>
</table>

Data source: Vital Statistics, Health Care Information Division, Oklahoma State Department of Health
Produced by: Community Development Service, Community Health Service, Oklahoma State Department of Health
July 2005
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 Tulsa County. Unintentional injuries are the leading cause of death from ages 5 to 34.

It is estimated that for every motor vehicle-related death $1.1 million in economic costs are incurred. For Tulsa County which has an average of 65.8 motor vehicle-related deaths a year, that translates to almost $74 million a year.

Violence-related injuries (homicide and suicide) in Tulsa County are ranked in the top 10 in seven of the eight age groups (see Top 10 list on page 3).

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 22.9% (130,602) of people in Tulsa County use tobacco of some sort. Medical costs accumulated by those persons are almost $431 million a year for Tulsa County.

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 25.3% (144,289 ) of people in Tulsa County had no leisure activity in the past month at the time they were surveyed.

The BRFSS also indicated that 6.5% (37,070 ) of Tulsa 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 $490,918,010.00 in one year for Tulsa 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, Tulsa County had a teen birth rate of 58.8 in 2003 which was a 1% decrease from 2002 (59.2) and a 16% decrease since 1993 (70.2).

With an average of 1185 births per year, teen pregnancy costs the citizens of Tulsa County $3,792,000.00 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, 11.6% of persons in Tulsa County for whom poverty status was known had an income below what was needed to live at the federal poverty level. Tulsa County is 21% below the state (14.7%) and 6% below the nation (12.4%) for persons with incomes below the federal poverty level.

<table>
<thead>
<tr>
<th>Income to Poverty Ratio, Tulsa County, 2000 Census</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poverty level</td>
</tr>
<tr>
<td>Population</td>
</tr>
<tr>
<td>Cumulative Population</td>
</tr>
<tr>
<td>% of Total</td>
</tr>
<tr>
<td>Cumulative %</td>
</tr>
</tbody>
</table>

* U.S. Census Bureau

Note: 260 births to a mother 10-14 years of age occurred during the 11 year period.
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.**
For a more comprehensive look at the health of Tulsa County residents the Tulsa City-County Health Department Planning & Epidemiology Division has developed this 228 page document. The Tulsa County Health Profile examines information found in this document, as well as topics such as environmental health, programs and services and links to resources.

http://www.tulsa-health.org

### Health Care Costs Summary

<table>
<thead>
<tr>
<th>Health Care Cost Category</th>
<th>2017 Costs</th>
</tr>
</thead>
</table>
| Cardiovascular Disease (Heart Disease)    | • Average 1567 deaths a year  
• $369,476.69 per death  
• Total— $578,969,973.23 a year |
| Obesity                                   | • 21.2% of population (120,906)  
• $395.00 in additional medical costs per person  
• Total— $47,757,870.00 |
| Motor Vehicle-Related Injury Death        | • Average 65.8 deaths per year  
• $1,120,000.00 in economic costs per death  
• Total— $73,696,000.00 a year |
| Tobacco Use                               | • 22.9% of population (130,602)  
• $3,300.00 in health care costs  
• Total— $430,986,600.00 a year |
| Diabetes                                  | • 6.5% of population (37,070)  
• $13,243.00 in healthcare costs a year  
• Total— $490,918,010.00 a year |
| Teen Pregnancy                            | • Average of 1185 births to teen mothers per year  
• $3,200.00 in costs for each birth a year  
• Total— $3,792,000.00 a year |

Grand Total for Tulsa County:  
$1,626,120,453.23
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.