



OKLAHOMA STATE DEPARTMENT OF HEALTH

# State of the County's Health Report

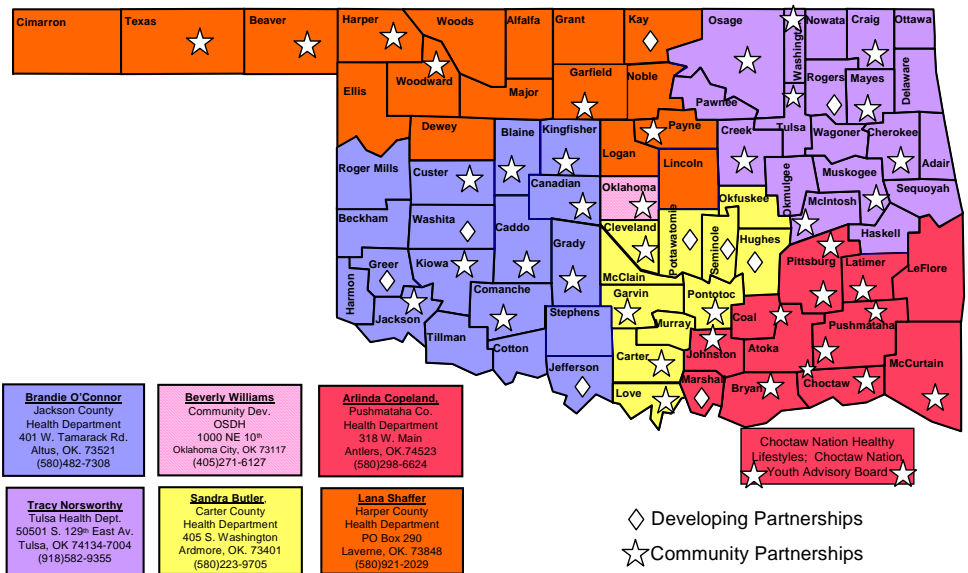
## A Look Back To Move Forward

### Rogers 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 Rogers 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.

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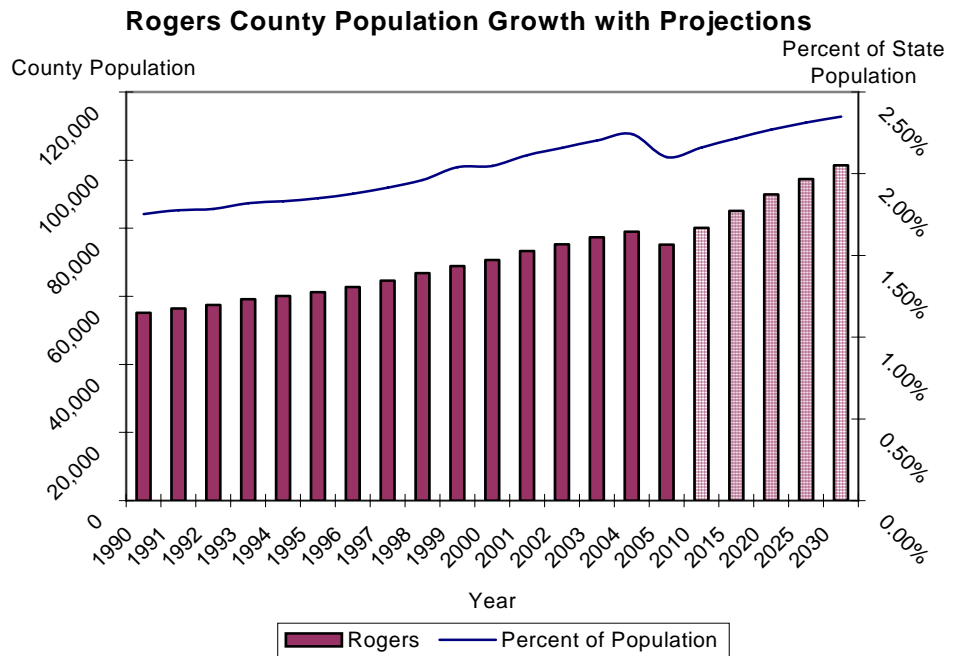
Field Rep Districts 9-13-05

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# Demographics

- Population estimates
  - 28% increase from 1990 to 2000 (55,170 to 70,641)
  - 12% increase from 2000 to 2004
  - Ranked 1<sup>st</sup> for growth in state
- 2000 Census
- Hispanic/Latino ethnicity = 2%
- Race
  - Whites = 80%
  - Native Americans = 12%
  - Blacks = 1%
  - Other/Multiple = 7%
- Age
  - Under 5 = 7%
  - Over 64 = 11%
  - Median age = 36.2 years
- Housing units
  - Occupied = 25,724 (94%)
  - Vacant = 1,752 (6%)
- Disability (ages 21 to 64) = 18.4%
  - national = 19.2% state = 21.5%
- Individuals below poverty = 8.6%
  - national = 12.4% state = 14.7%



\* *Vital Statistics, Health Care Information Systems, OSDH & Centers for Disease Control*

## 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 Rogers 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 1,530 people in Rogers 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 171.5 deaths a year, heart disease accounts for over \$64 million a year in medical costs in

**Heart disease accounts for over \$64 million a year in medical costs in Rogers County.**

Rogers County.

Alzheimer's disease and the complications associated with it have increased from the 13<sup>th</sup> ranked cause of death (1983-1993) to the 7<sup>th</sup> ranked cause of death in persons 65 and older accounting for a 607% increase in deaths.

\* *Behavioral Risk Factor Surveillance System, Health Care Information System, OSDH & Health Affairs Journal, R. Strum, 2002*

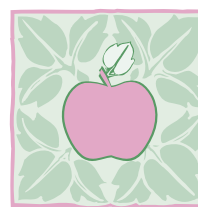
## Nutrition and Obesity

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, 21.4%



**Sensible Foods – Sensible Portions  
5 to 9 Fruits & Vegetables a Day**

(16,519) of people in Rogers County were considered obese which accounted for an additional \$6,525,005 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 Rogers County 1993-2003

Rank	0-4	05-14	15-24	25-34	35-44	45-54	55-64	65+	All Ages
1	CONGENITAL ANOMALIES 23	UNINTENT. INJURY 6	UNINTENT. INJURY 57	UNINTENT. INJURY 36	UNINTENT. INJURY 45	CANCER 124	CANCER 283	HEART DISEASE 1518	HEART DISEASE 1887
2	PERINATAL PERIOD 15	CONGENITAL ANOMALIES 3	SUICIDE 15	SUICIDE 13	CANCER 44	HEART DISEASE 111	HEART DISEASE 208	CANCER 888	CANCER 1356
3	UNINTENT. INJURY 9	HEART DISEASE 2	HOMICIDE/LEGAL 6	CANCER 11	HEART DISEASE 36	UNINTENT. INJURY 33	BRONCHITIS/EMPHYSEMA/ASTHMA	STROKE 356	STROKE 404
4	HEART DISEASE 3	HOMICIDE/LEGAL 2	CANCER 6	HEART DISEASE 7	SUICIDE 18	BRONCHITIS/EMPHYSEMA/ASTHMA 15	STROKE 29	BRONCHITIS/EMPHYSEMA/ASTHMA 255	BRONCHITIS/EMPHYSEMA/ASTHMA 313
5	SEPTICEMIA (BLOOD POISONING) 3	STROKE 1	HEART DISEASE 2	HIV 7	LIVER DISEASE 9	SUICIDE 15	UNINTENT. INJURY 29	INFLUENZA/PNEUMONIA 155	UNINTENT. INJURY 291
6	HOMICIDE/LEGAL 1	INFLUENZA/PNEUMONIA 1	NON-CANCEROUS TUMOR 1	HOMICIDE/LEGAL 5	DIABETES MELLITUS 7	STROKE 13	DIABETES MELLITUS 28	DIABETES MELLITUS 117	INFLUENZA/PNEUMONIA 175
7	SIDS 1	KIDNEY DISEASE 1	CONGENITAL ANOMALIES 1	CONGENITAL ANOMALIES 2	HIV 7	DIABETES MELLITUS 10	LIVER DISEASE 18	ALZHEIMER'S DISEASE 106	DIABETES MELLITUS 163
8	WHOOPING COUGH 1	OTHER 5	DIABETES MELLITUS 1	BRONCHITIS/EMPHYSEMA/ASTHMA 1	STROKE 4	INFLUENZA/PNEUMONIA 7	SUICIDE 12	KIDNEY DISEASE 77	ALZHEIMER'S DISEASE 107
9	OTHER 13		HIV 1	STROKE 1	HOMICIDE/LEGAL 4	LIVER DISEASE 6	INFLUENZA/PNEUMONIA 9	UNINTENT. INJURY 76	KIDNEY DISEASE 85
10			KIDNEY DISEASE 1	TWO CAUSES TIED 1	TWO CAUSES TIED 3	HOMICIDE/LEGAL 3	SEPTICEMIA (BLOOD POISONING) 7	SEPTICEMIA (BLOOD POISONING) 41	SUICIDE 83

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 Rogers County. Unintentional injuries are the leading cause of death from ages 5 to 44.

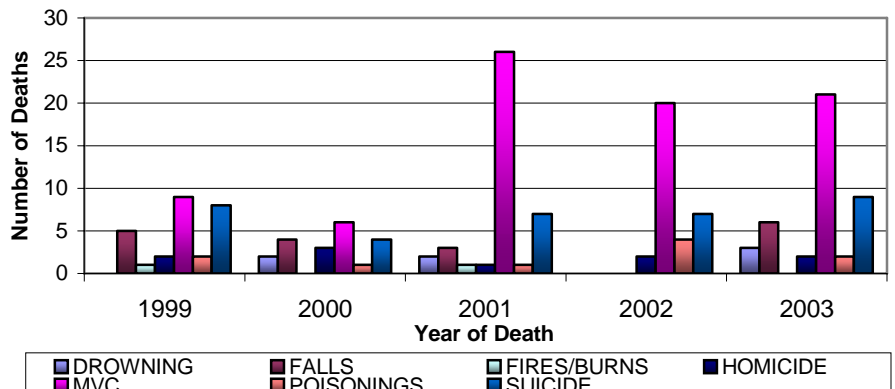
It is estimated that for every motor vehicle-related death \$1.1 million in economic costs are incurred. For Rogers County which has an average of 16.4 motor vehicle-related deaths a year,

that translates to over \$18 million a year.

Violence-related injuries (homicide

and suicide) in Rogers County are ranked in the top 10 in seven of the eight age groups (see Top 10 list on page 3).

**Injury and Violence-Related Deaths in Rogers County, 1999 - 2003**



\* *Vital Statistics*, Health Care Information Systems, OSDH & Centers for Disease Control

## 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 Be-

havioral Risk Factor Surveillance System, it is estimated that 26.9% (20,765) of people in Rogers County use tobacco of some sort. Medical costs accumulated by those persons are almost \$69 million a year for Rogers County.

*“Medical costs accumulated by those persons are almost \$69 million a year for Rogers County”*

\* *Behavioral Risk Factor Surveillance System*, Health Care Information System, OSDH & American Diabetes Association, 2002

## 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 27.7%

(21,382 ) of people in Rogers County had no leisure activity in the past month at the time they were surveyed.

The BRFSS also indicated that 8.3% (6,407 ) of Rogers County citizens have been diagnosed by a health professional as hav-



*Increase activity gradually. Moderate exercise for 30 minutes 5 days a week.*

ing 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 \$84,847,901.00 in one year for Rogers 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

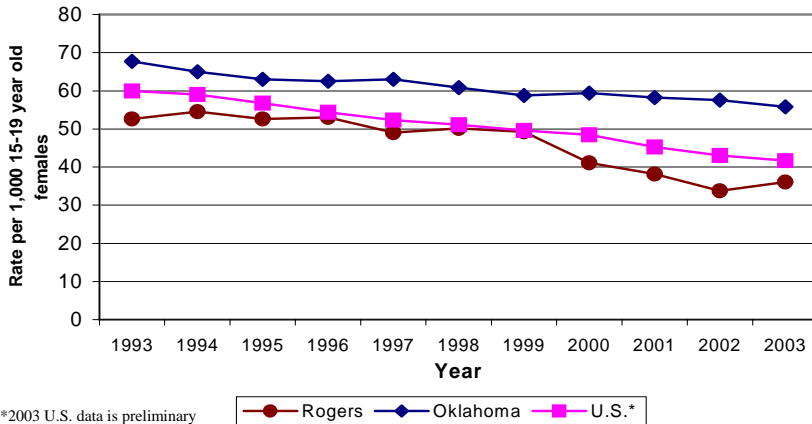
31% and 7%, respectively.

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, Rogers County had a teen birth rate of 36.1 in 2003 which was a 7% increase from 2002 (33.8) and a 31% decrease since 1993 (52.6).

With an average of 118 births per year, teen pregnancy costs the citizens of Rogers County \$377,600.00 a year.

**Rate of Live Births to Teen Mothers Ages 15-19, Rogers County, 1993 to 2003**



\*2003 U.S. data is preliminary

Note: 9 births to a mother 10-14 years of age occurred during the 11 year period.

# Poverty

\* U.S. Census Bureau

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, inade-

quate 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, 8.6% of persons in Rogers County for

whom poverty status was known had an income below what was needed to live at the federal poverty level. Rogers County is 41% above the state (14.7%) and 31% below the nation (12.4%) for persons with incomes below the federal poverty level.

**Income to Poverty Ratio, Rogers County, 2000 Census**

Poverty level	Total	50% below	51% to 99% below	poverty level to 149% above	150% to 199% above	200% and above
Population	69,661	2,458	3,541	5,397	6,129	52,136
Cumulative Population		2,458	5,999	11,396	17,525	69,661
% of Total	100.0%	3.5%	5.1%	7.7%	8.8%	74.8%
Cumulative %		3.5%	8.6%	16.4%	25.2%	100.0%

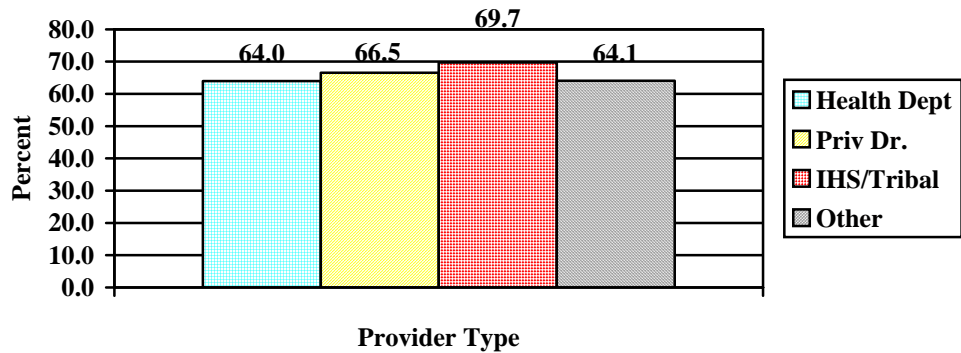
# OK By One - State Immunization Data

\* 2 Year-old Immunization Survey, Immunization Service, OSDH

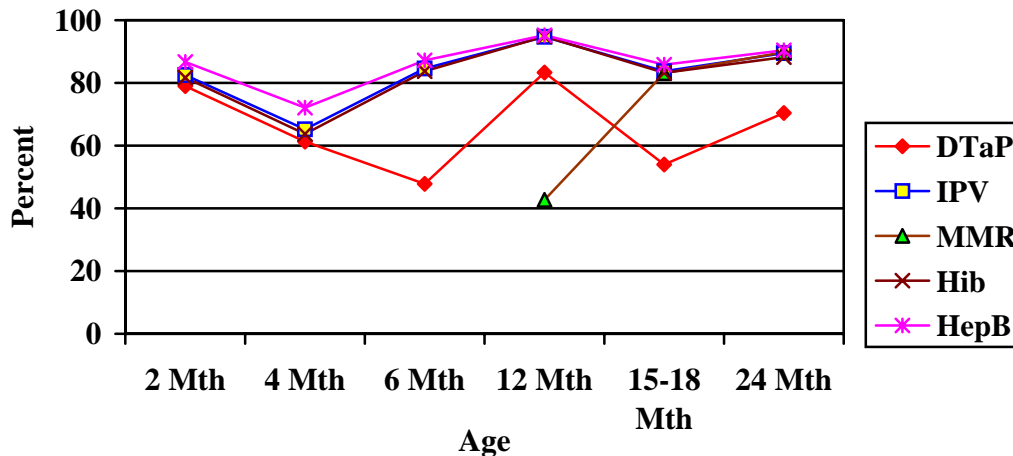
2003-04 Immunization Coverage Rates



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



Oklahoma Children On Schedule by Antigen, 2004

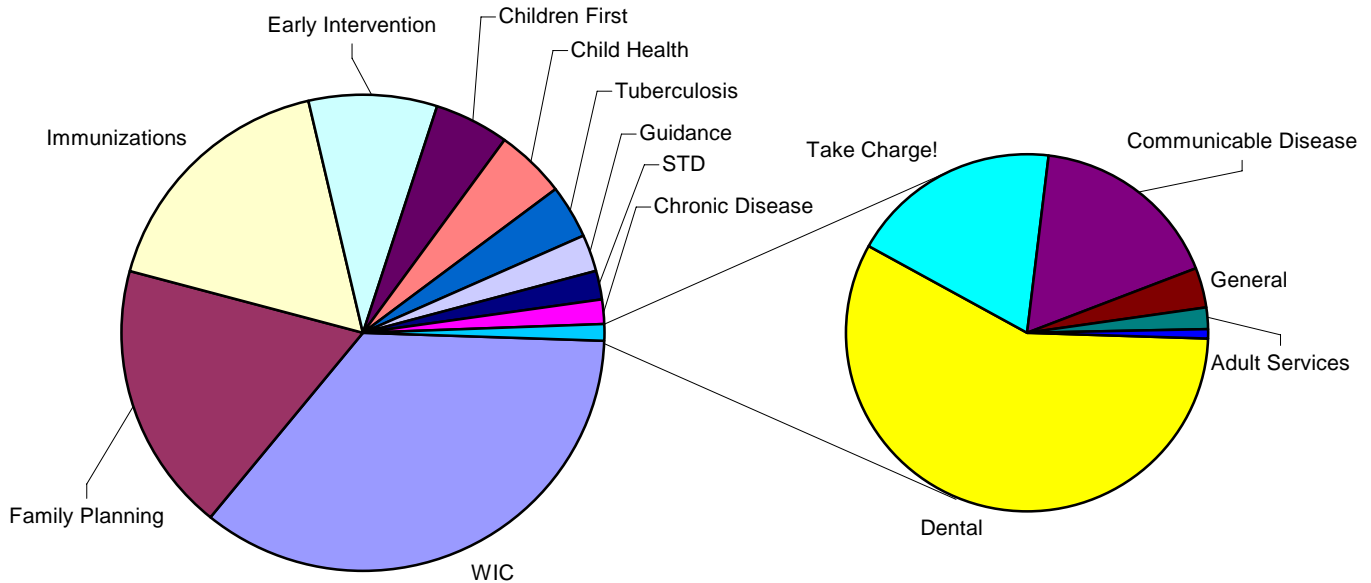


\*\*Note: County level data will be available soon.

# County Health Department Usage

\* PHOCIS, Community Health Services, OSDH

## Attended Appointments for Rogers County Health Department, State Fiscal Year 05



## Health Care Costs Summary

### Cardiovascular Disease (Heart Disease)

- Average 172 deaths a year
- \$369,476.69 per death
- Total— \$63,549,990.68 a year

### Obesity

- 21.4% of population ( 16,519 )
- \$395.00 in additional medical costs per person
- Total—\$6,525,005.00

### Motor Vehicle-Related Injury Death

- Average 16.4 deaths per year
- \$1,120,000.00 in economic costs per death
- Total—\$18,368,000.00 a year

### Tobacco Use

- 26.9% of population ( 20,765 )
- \$3,300.00 in health care costs
- Total—\$68,524,500.00 a year

### Diabetes

- 8.3% of population ( 6,407 )
- \$13,243.00 in healthcare costs a year
- Total—\$84,847,901.00 a year

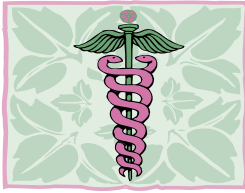
### Teen Pregnancy

- Average of 118 births to teen mothers per year
- \$3,200.00 in costs for each birth a year
- Total— \$377,600.00 a year



Grand Total for Rogers County:

**\$242,192,996.68**



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DEPARTMENT OF HEALTH**

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*A Look Back To Move Forward*

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*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.*

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# Oklahoma Turning POINT



*Oklahoma Community Partners  
in Public Health Innovation*