Costs of Tobacco

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Costs of Tobacco:

- Smoking Attributable Morbidity, Mortality and Economic Costs (SAMMEC)
 - What it is
 - Results
 - What it doesn't include
- Tobacco industry

Adult SAMMEC

- An online application to estimate the health and healthrelated economic consequences of smoking.
- Provides users the ability to estimate:
 - Annual Smoking-Attributable Mortality (SAM)
 - Years of Potential Life Lost (YPLL)
 - Medical expenditures
 - Productivity losses
- 2014 Surgeon General's Report updating methodology
 - New conditions linked to smoking
 - Updated relative risks for adult conditions
 - Four age strata used in calculations
 - Newer smoking history rates
 - More recent healthcare expenditure rates by insurer type

Smoking Attributable Mortality

Coronary Artery Disease

> 133,250 (27.7%)

Lung Cancer 137,989 (28.7%) About

480,320

U.S. deaths attributable each year to cigarette use and secondhand smoke

All Other Diseases **84,181**

(17.5%)

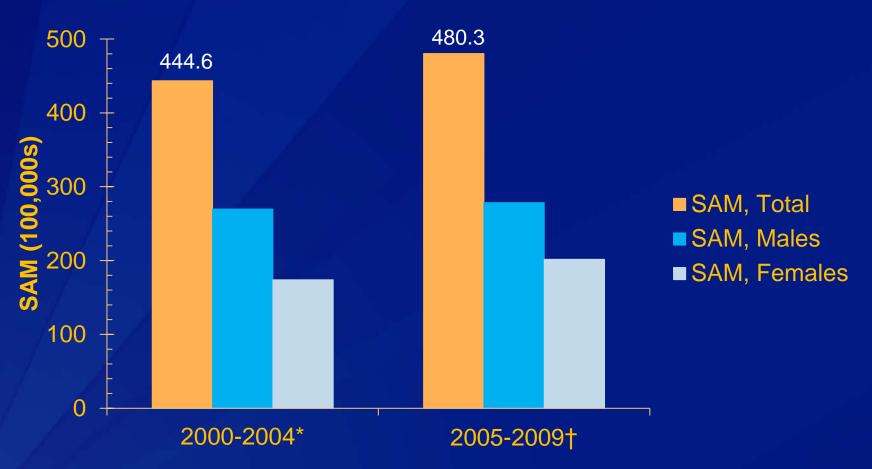
Diabetes 9,000 (1.8%)

Cerebrovascular Disease (stroke) 15,300 (3.1%)

Chronic
Obstructive
Pulmonary Disease
(COPD)

100,600 (21.9%)

Smoking Attriubutable Mortality (SAM) in US: 2000-2004 vs. 2005-2009



Sources: *MMWR 2008;57(45): 1226-1228, †SGR 2014

Economic Cost Component

- Direct costs:
 - Cigarette smoking-attributable health care expenditures
- Indirect costs:
 - Productivity loss associated with smoking-attributable premature death



Costs of Smoking: 2000-2004 vs. 2009-2012

- **2000-2004:**
- Approximately \$193 billion annually
 - Healthcare expenditure: \$96 billion
 - Productivity loss: \$97
 billion from smokingrelated causes

- **2009-2012:**
- Approximately \$289–333 billion annually
 - Healthcare expenditure: \$133-176 billion
 - Productivity loss:
 - \$151 billion (deaths from all causes)
 - \$5.6 billion to secondhand smoke

Direct Costs of Smoking (Healthcare Expenditures)

- Optimistic case: \$133 billion
 - □ Smoking attributes to 7.6% of national health care expenditure for persons aged 19 years and older
- More realistic case: \$176 billion
 - □ Smoking attributes to 8.7% of national health care expenditure for persons aged 19 years and older

Indirect Costs of Smoking

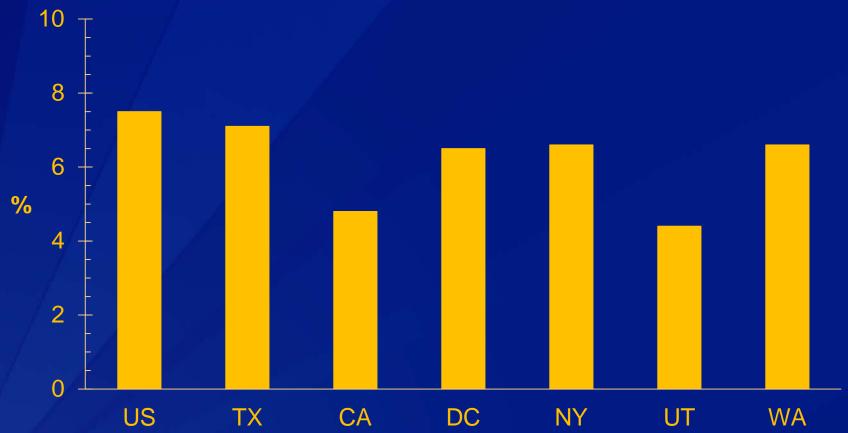
- Smoking attributable productivity losses for deaths from all causes: \$151 billion
 - □ By gender
 - Males: \$105.6 billion
 - Females: \$45.1 billion
 - □ By Disease
 - Cancers: \$44.5 billion
 - Cardiovascular: \$44.7 billion
 - Pulmonary diseases: \$18.4 billion
 - Others: \$43.2 billion



Costs of Smoking: Texas

- Smoking Attributable Deaths
 - 28,000 annually
- Youth aged 0-17 projected to die from smoking
 - **498,500**
- Direct medical costs
 - \$8.8 billion annually (expected to increase)
- Estimates of direct medical costs are conservative
 - Do not incorporate small cigars, emerging tobacco products
 - Underestimates mordidity and social costs





Source: SGR, 2014

Other Costs Not Included in SAMMEC

- Productivity loss associated with smoking-attributable morbidity
 - 7,521,000 current/former smokers with COPD
 - 2,474,000 current/former smokers with heart attack
- Smoking attributable neonatal costs: \$367 million in 1996 dollars

Other Costs of Tobacco

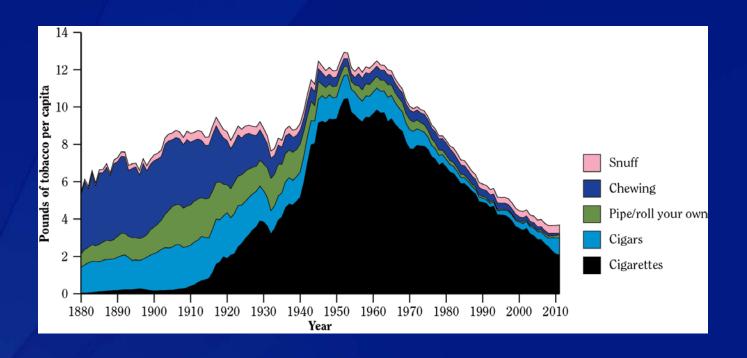
□ Costs associated with other combustible and emerging tobacco products



Tobacco Industry and Costs

- Tobacco manufacturers' goal: maximize profits
- Challenge: declining cigarette consumption
- Industry's options:
 - Increase the efficiency of production
 - Increase the unit price
 - Avoid paying for external costs (SAMMEC)
 - Introduce new substitutes to cigarettes
 - Introduce price-related promotional effects
 - Expand tobacco use to broader population

Per-capita consumption of different forms of tobacco in the United States, 1880–2011

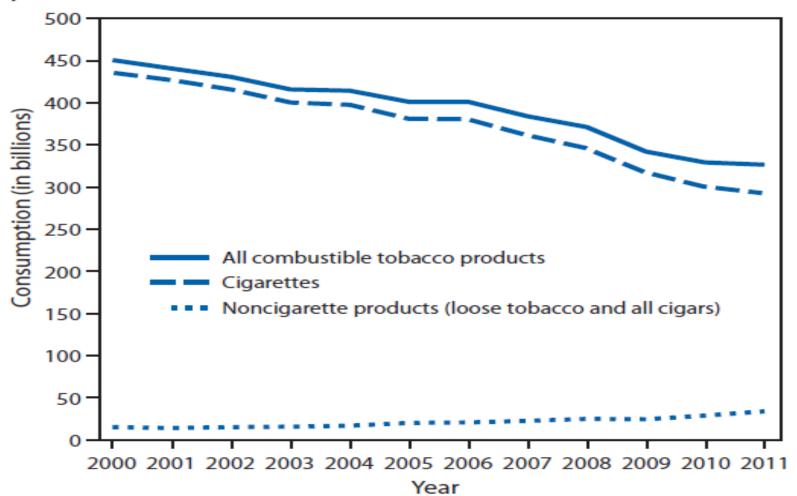


Source: U.S. Department of Treasury 2012.

Other Tobacco Products

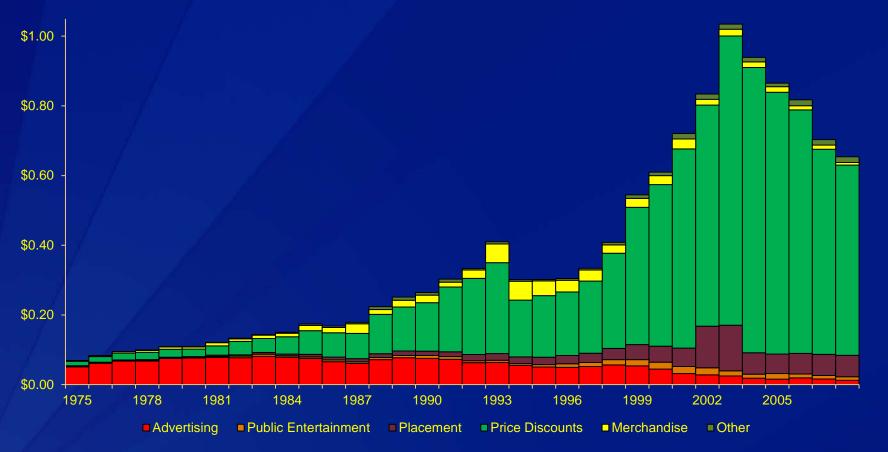
☐ The use of other tobacco products: 2000-2011 FIGURE 2. Consumption of cigarettes and other combustible tobacco

products — United States, 2001-2011



Tobacco Industry: Price-related Efforts

Cigarette Marketing Expenditures per Pack, by Type, 1975-2008, Inflation Adjusted



Broaden Consumer Base









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Revenue Continues to Increase



Conclusion

Costs are enormous

In human suffering In economic effects

Tobacco industry does not pay the bill

