

# Key winnable public health battles for the United States

**Tobacco**



**Nutrition,  
Physical Activity,  
Obesity and  
Food Safety**

**Healthcare-  
Associated  
Infections**



**Motor  
Vehicle  
Injuries**

**Teen  
Pregnancy**



**HIV**

# Key winnable public health battles for the United States: Progress update

 Tobacco



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HIV 

# Winnable battles

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- Each area is a leading cause of illness, injury, disability, or death, and/or represents enormous societal costs
- Evidence-based, scalable interventions already exist and can be broadly implemented
- Our effort can make a difference
- We can get results within 1 to 4 years—but it won't be easy



# Tobacco

**Tobacco use is the leading preventable cause of death in the U.S.**

 **>40M**

**>40 million** U.S. adults smoke



**500,000**

Tobacco kills almost **500,000** people in the U.S. each year, **>1,300** a day



**40%**

**2 in 5** or **40%** of children ages 3 to 11 are exposed to secondhand smoke

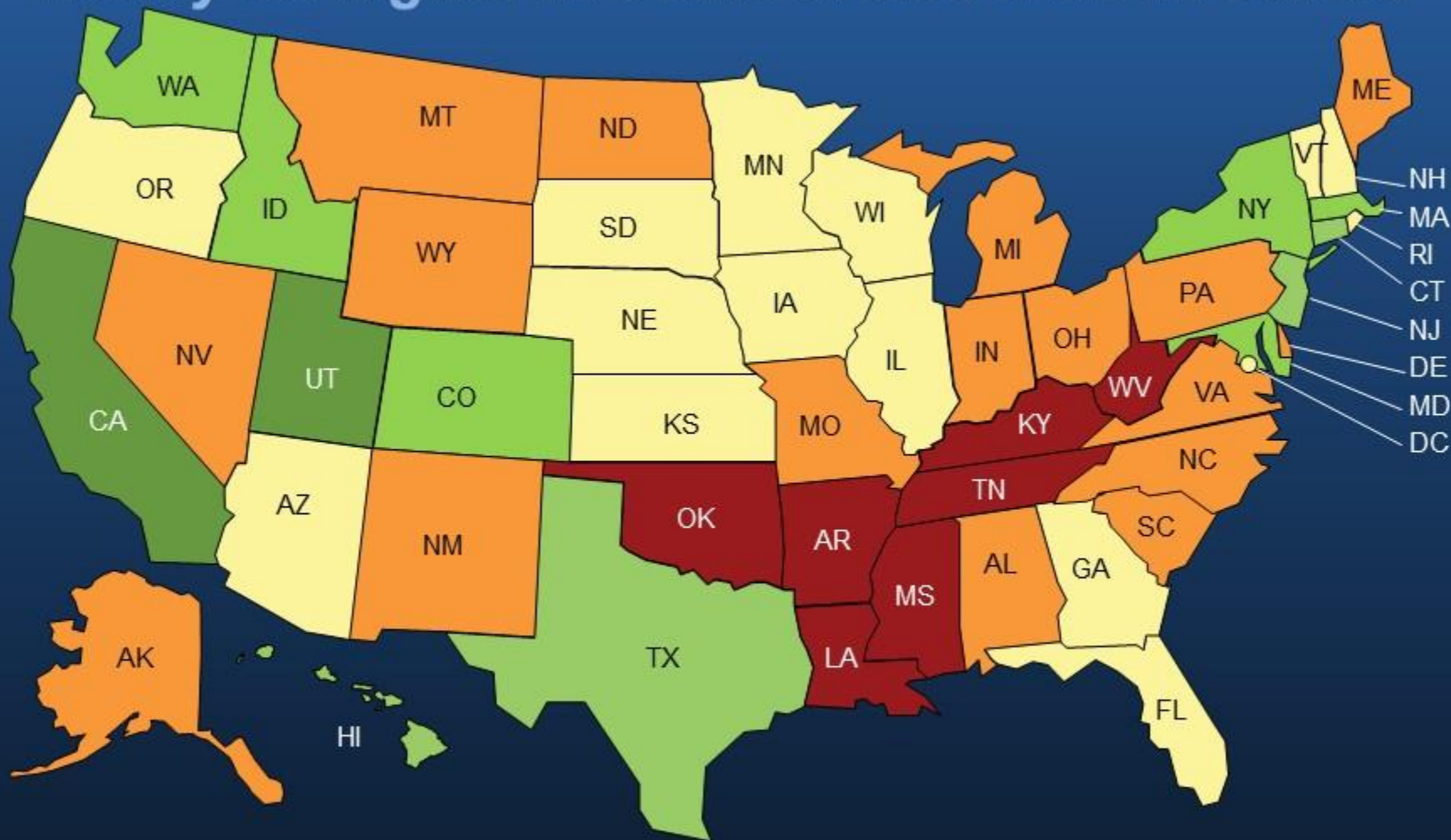


**\$133B**

The medical expenses of tobacco-related illnesses are at least **\$133 billion** per year

# Adult smoking rates vary widely

*Nearly 3x higher in some states than in others*

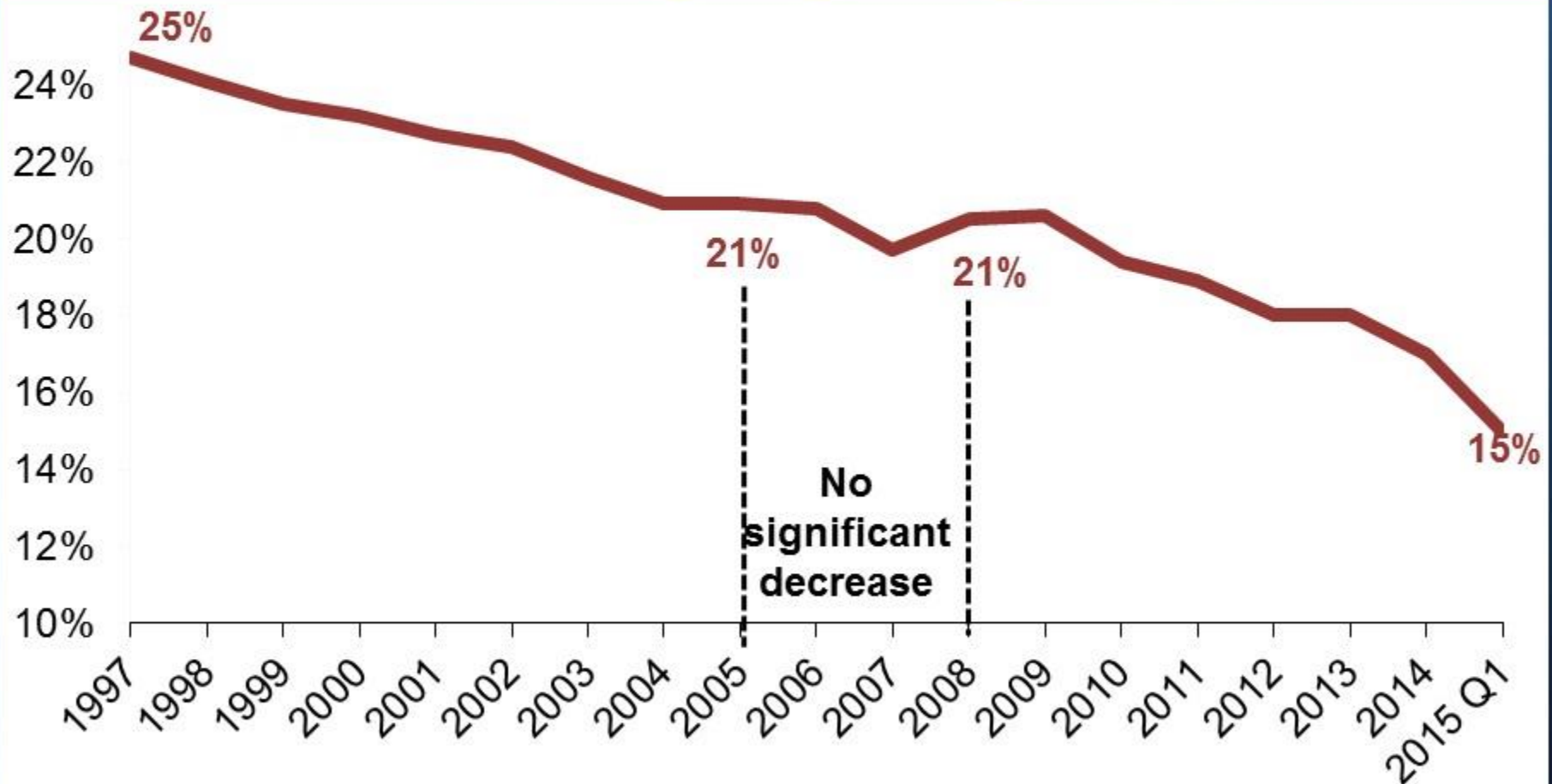


Behavioral Risk Factor Surveillance System, 2014;

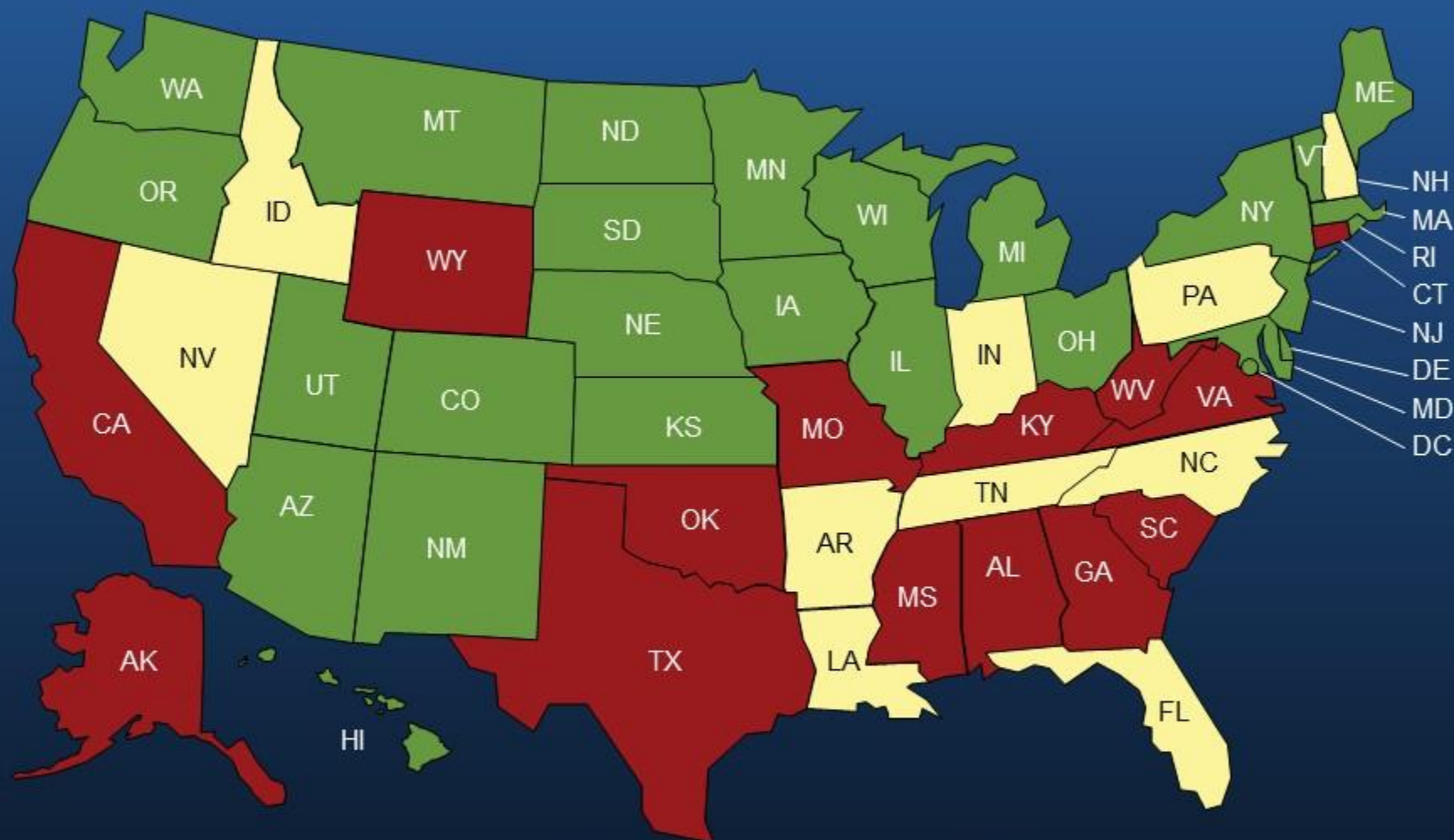
<http://apps.nccd.cdc.gov/statesystem/InteractiveReport/InteractiveReports.aspx>

# Adult smoking rates have fallen in recent years

Prevalence of current smoking among adults age 18+, U.S., 1997–2014



# Many states have passed smoke-free laws in worksites, restaurants, and bars



**Green** Ban in worksites, restaurants, and bars      **Yellow** Ban in 2 of 3 locations      **Red** Less stringent or no restrictions

Laws in effect as of 2014. CDC. State Tobacco Activities Tracking and Evaluation (STATE) System.

[http://www.cdc.gov/tobacco/data\\_statistics/tables/secondhand-smoke/infographics/pdfs/map\\_900.pdf?s\\_cid=bb-osh-shs-graphic-002](http://www.cdc.gov/tobacco/data_statistics/tables/secondhand-smoke/infographics/pdfs/map_900.pdf?s_cid=bb-osh-shs-graphic-002)

# Progress in tobacco control

## Smoking gets lower in places that implement effective policies

- More comprehensive smoke-free laws in several states
- CDC's graphic anti-smoking campaign: *Tips From Former Smokers* depicts the devastating consequences of smoking and exposure to secondhand smoke



CA: Behavioral Risk Factor Surveillance System 1984-2014  
NY: <https://a816-healthpsi.nyc.gov/epiquery/>



# 2016 Tips From former Smokers campaign:

Profiles people who are living with the significant  
adverse health effects due to smoking



# Nutrition, physical activity, obesity, and food safety



About **35%** (78.6 million) U.S. adults and **17%** (12.7 million) children and adolescents aged 2–19 years are obese



A person who is obese incurs an added **\$1,400** a year in medical costs



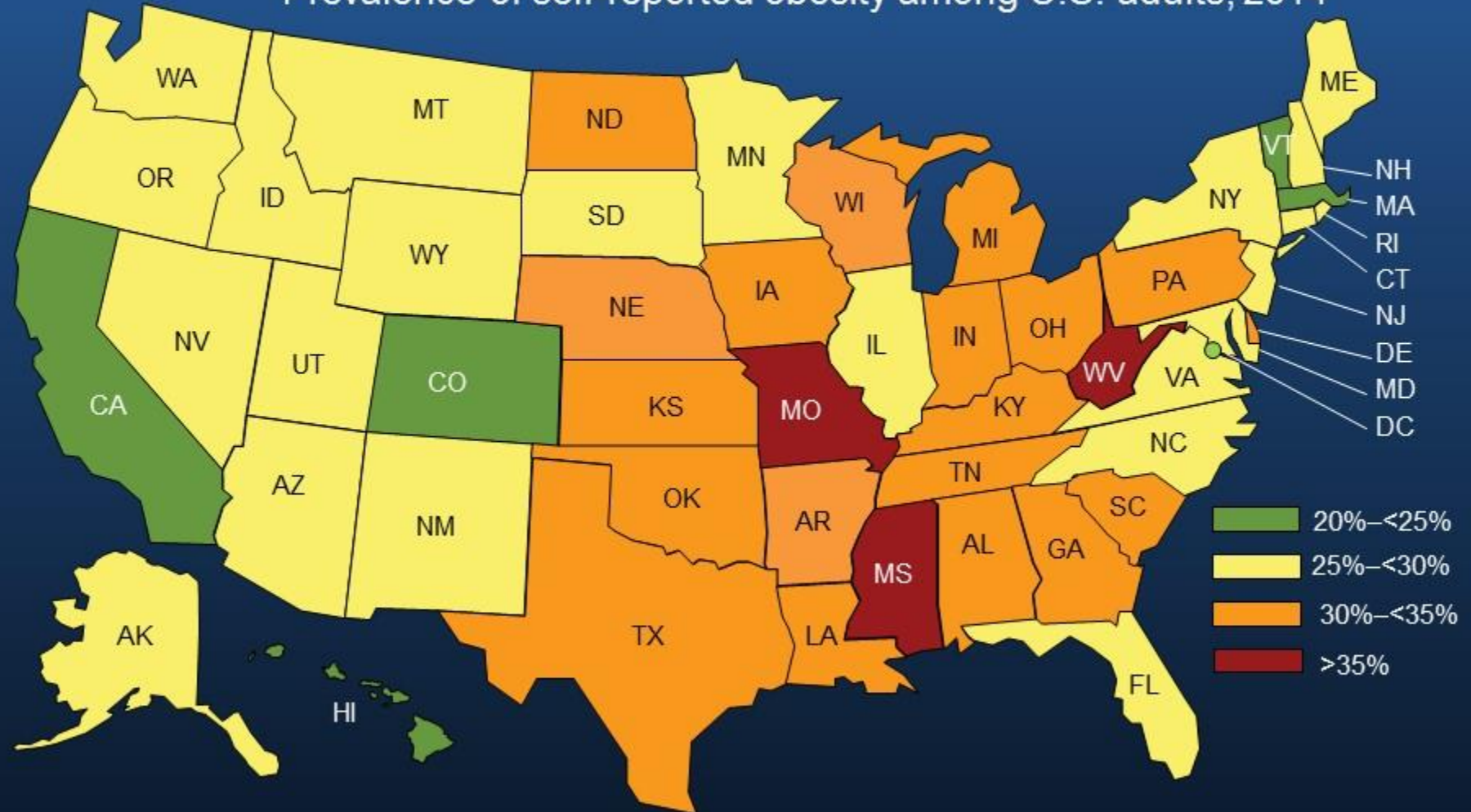
**1 in 6** (48 million) people gets sick each year from contaminated food and **3,000** people die



Preventing a single fatal case of *E. coli* O157 infection saves an estimated **\$7 million**

# Rates of obesity are high in all states among adults

Prevalence of self-reported obesity among U.S. adults, 2014



Source: Behavioral Risk Factor Surveillance Systems, CDC, 2014

# Progress in nutrition, physical activity, obesity, and food safety

## Many states show decreases in childhood obesity



From 2008 to 2011, obesity among low-income preschoolers declined in 19 of 43 states and territories studied

\* Represents statistically significant annual decrease or increase in obesity  
Source: Pediatric Nutrition Surveillance System, 2008–2011

## *E.coli* O157 infections decreased



*E.coli* O157 infections decreased 46% from 1996 to 2014

Source: [www.cdc.gov/foodnet/](http://www.cdc.gov/foodnet/)

# Healthcare-associated infections



**>1M**

More than **1 million** infections occur across health care every year



**\$30B**

These infections cost an estimated **\$30 billion** per year



**14,000**

*Clostridium difficile* infections kill **14,000** people in the U.S. annually

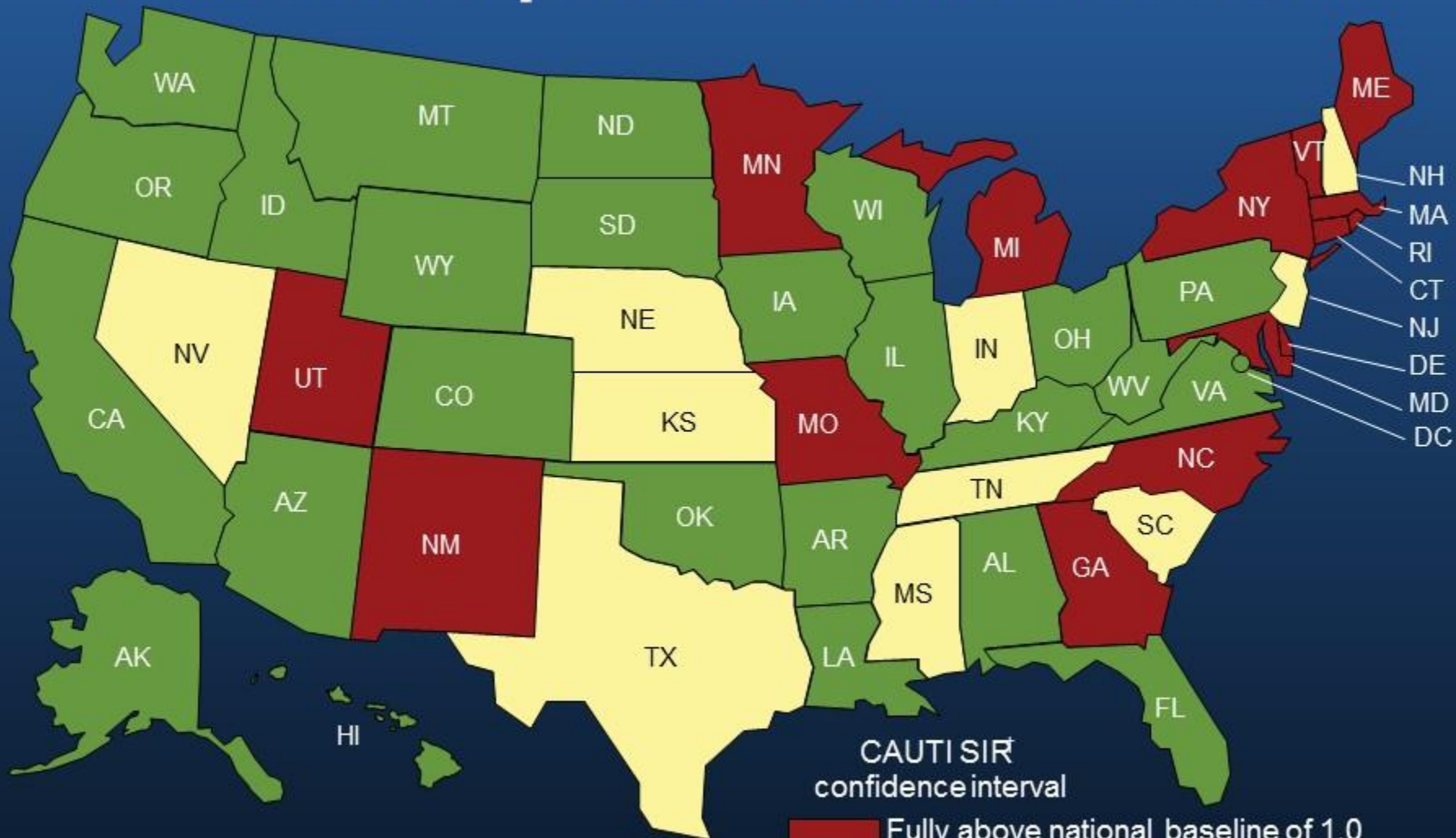


**1 in 2**

**CRE\*** microbes kill **up to half** of patients who get bloodstream infections from them

\*Carbapenem-resistant Enterobacteriaceae

# CAUTI\* has improved in some states, but further prevention is needed



\*CAUTI: Catheter-associated urinary tract infections

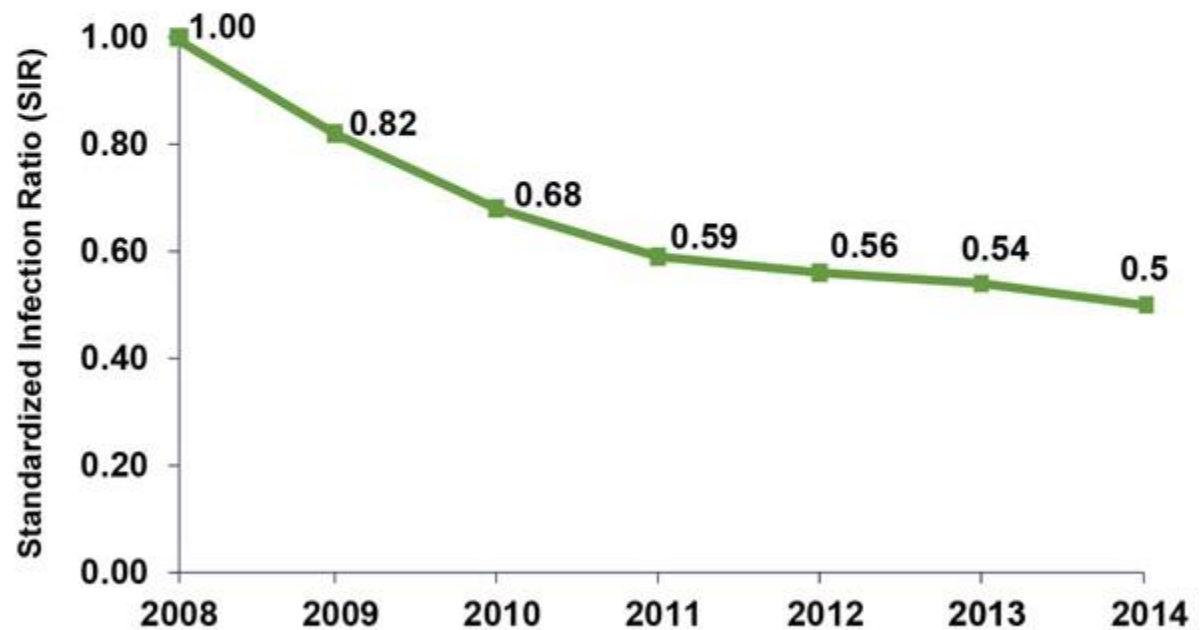
†SIR: Standardized infection ratio

Source: 2014 HAI Progress Report Data Tables, Table 4a

# Progress in healthcare-associated infections

## SIR for central line-associated bloodstream infections declined sharply

**-50%**



*National and State Healthcare-associated Infections Progress Report, published January 2016, based on 2014 data;*  
[www.cdc.gov/hai/surveillance/progress-report/index.html](http://www.cdc.gov/hai/surveillance/progress-report/index.html)

# Motor vehicle injuries



**>32,000**



More than **32,000** people in the U.S. are killed in motor vehicle crashes every year

Road traffic crashes are the **leading cause of death** for children, teens, and young adults



**2.3M**

Motor vehicle-related crashes injure more than **2.3 million** people every year

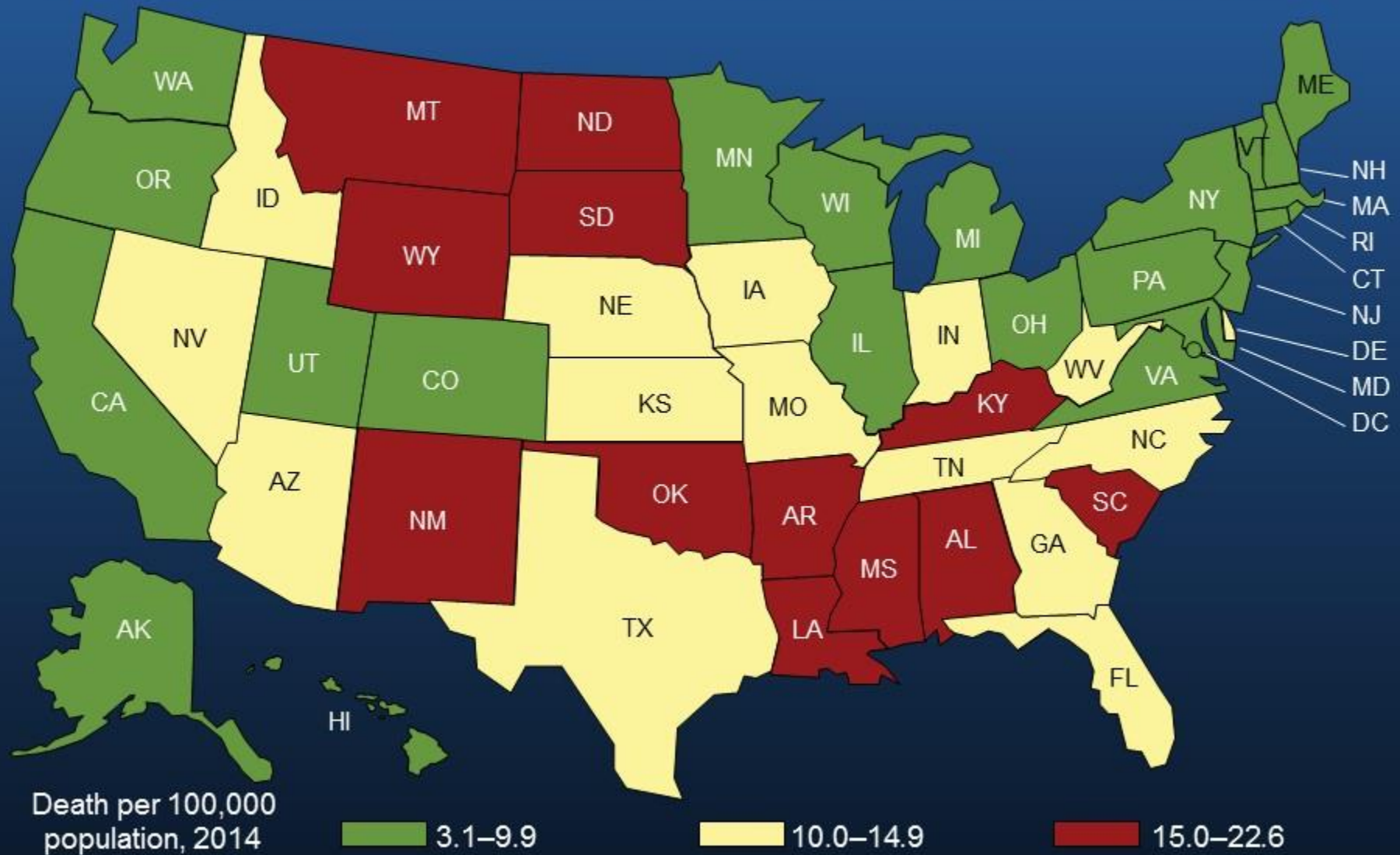


**\$99B**

The annual cost of motor vehicle-related injuries and deaths is **\$99 billion**



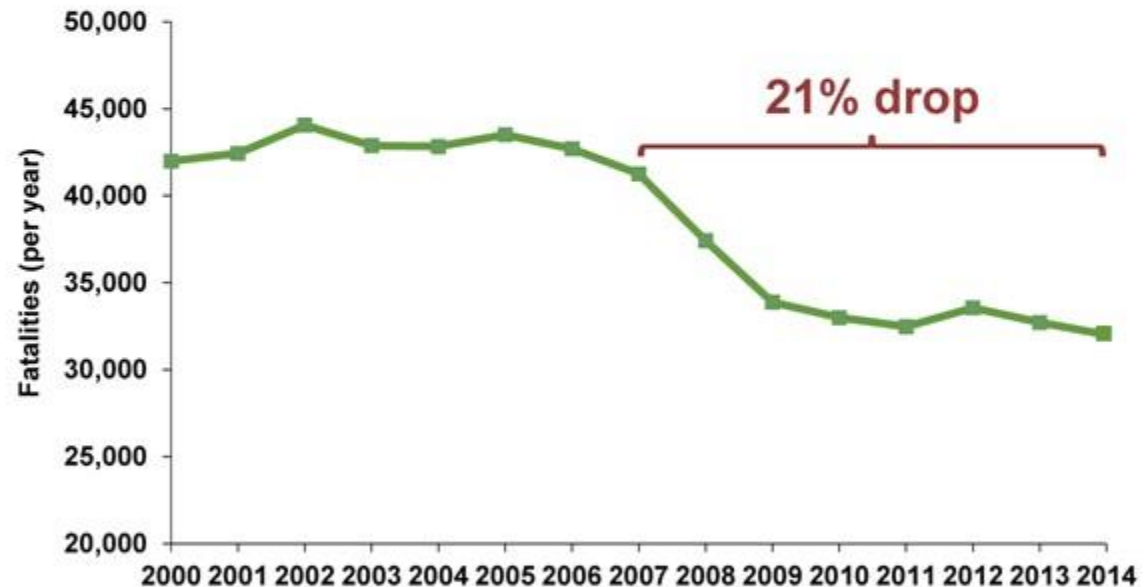
# Motor vehicle crash death rates nearly 5x higher in some states than others



# Progress in motor vehicle injuries

## Motor vehicle-related deaths decreased between 2007–2014

**-21%**



# Teen pregnancy



**682**

Every day, **682** teens  
15–19 years old give  
birth in the U.S.



Teen births in the U.S.  
are up to **9 times higher**  
than in most other  
developed countries

**1 in 4**



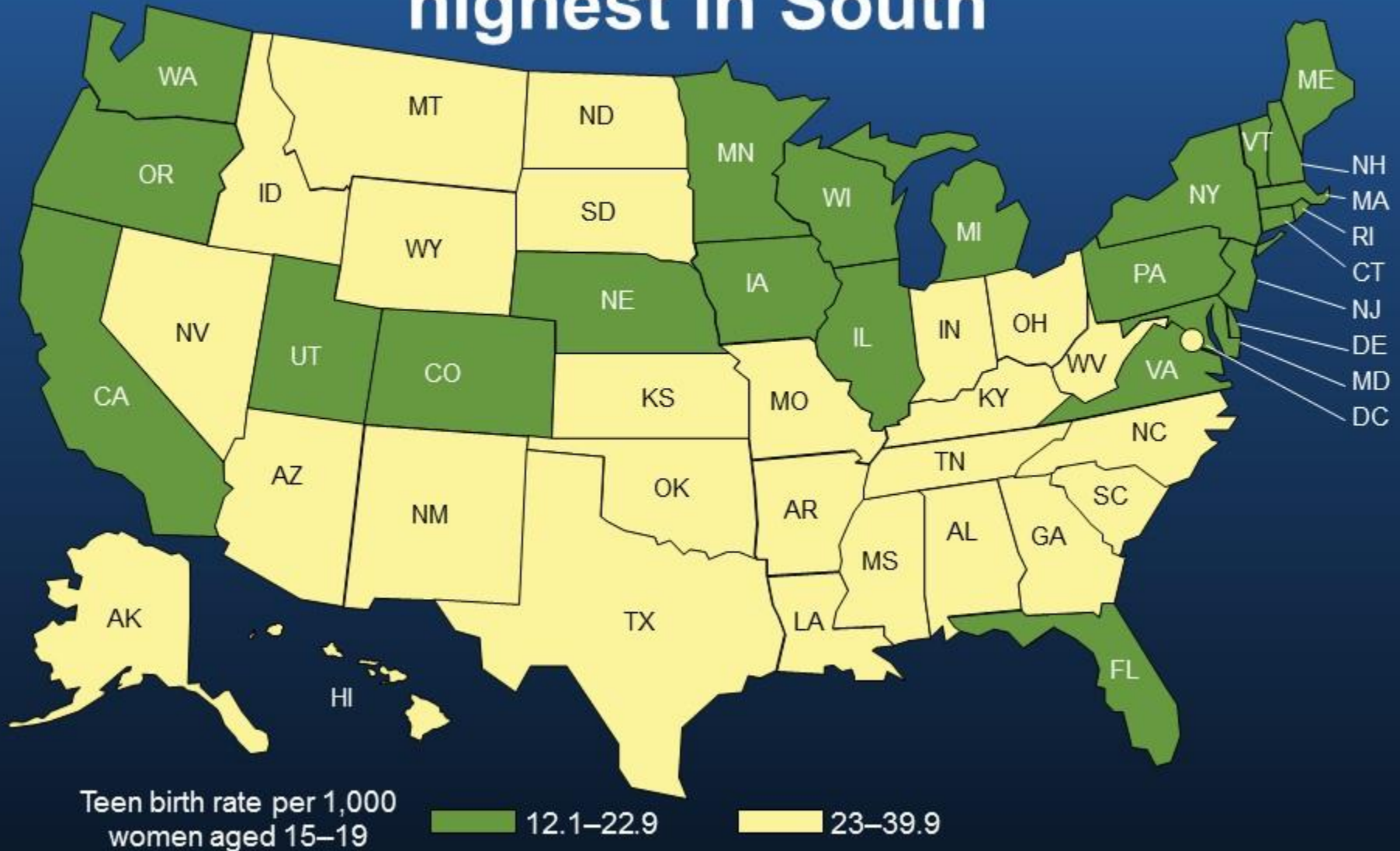
**1 in 4** teen girls will become  
pregnant before age 20. **614,000**  
teen pregnancies every year



**\$9.4B**

Teen childbearing costs  
U.S. taxpayers **\$9.4**  
**billion** every year

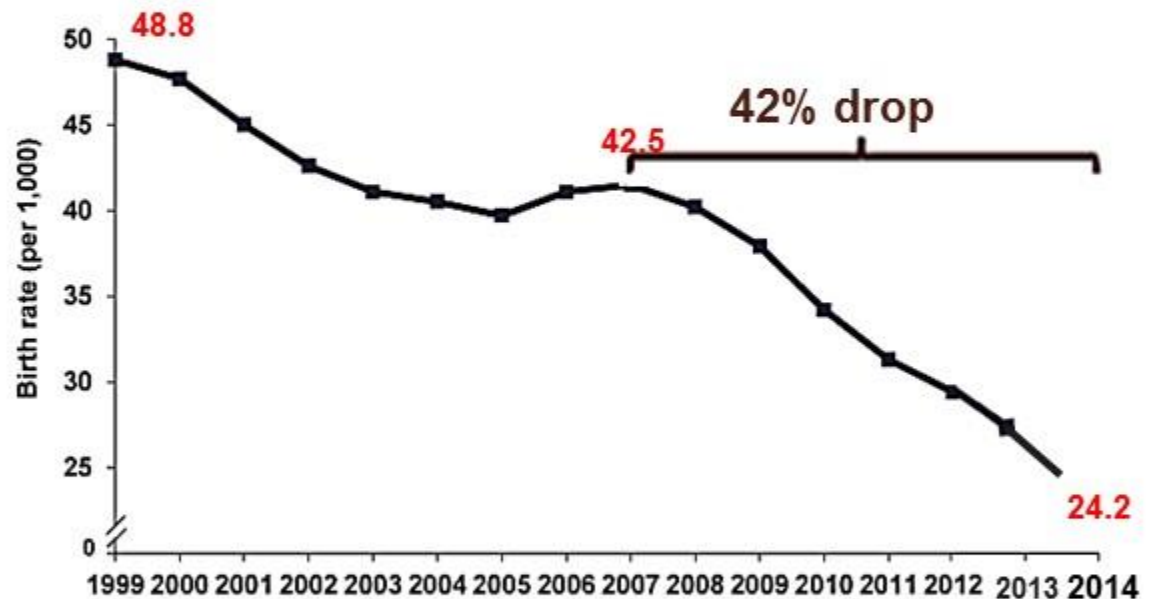
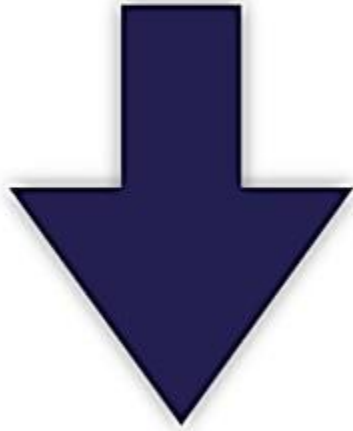
# Teen birth rates lowest in Northeast, upper Midwest, upper Northwest, and highest in South



# Progress in teen pregnancy

## Major decrease in teen births between 2007-2014

**-42%**



# HIV/AIDS



**1.2 million** people in the U.S. are living with HIV



Almost **1 in 8** people do not know they are infected



Only **3 in 10** people with HIV (**30%**) achieve viral suppression

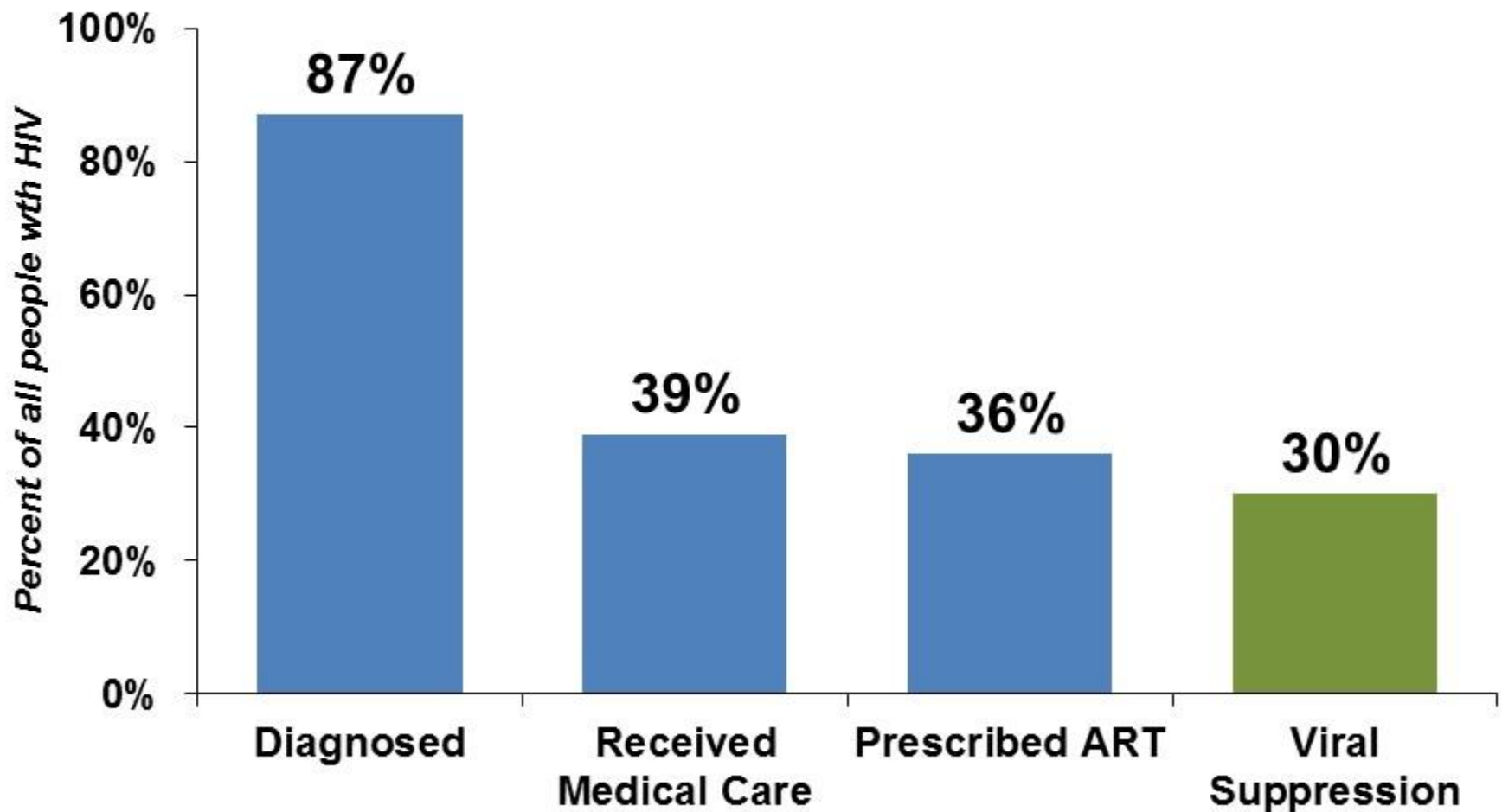


**\$400,000**

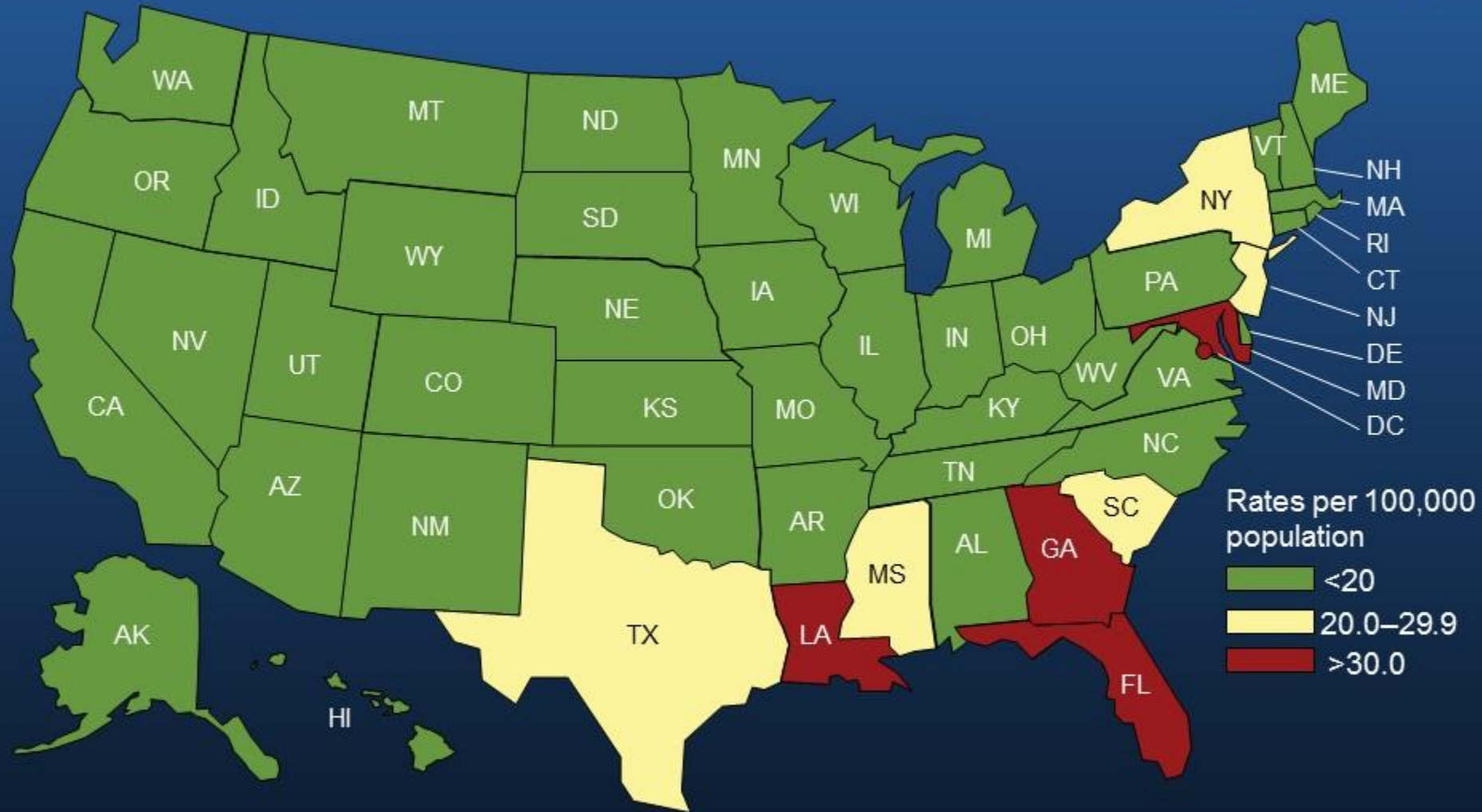
The lifetime cost of treating one HIV-infected person is **\$400,000**

# The continuum of HIV care

*Of the 1.2 million Americans living with HIV, less than a third are virally suppressed*



# New HIV diagnosis rates are higher in the Southeast and Northeast US (2014)



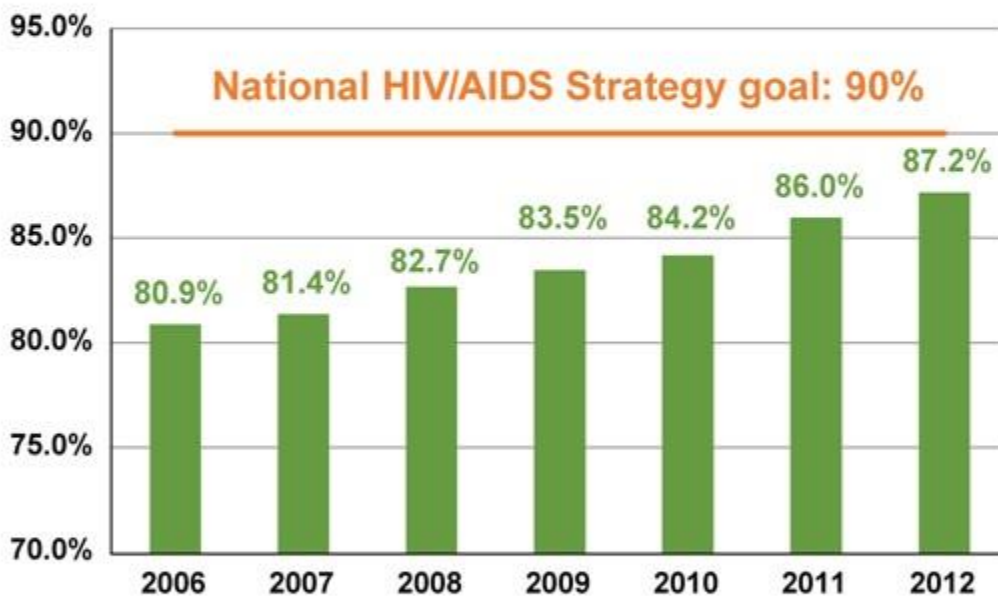
*Note: Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis. Data includes adults and adolescents only. Data have been statistically adjusted to account for reporting delays, but not for incomplete reporting. Source: [www.cdc.gov/hiv/library/slideSets/index.html](http://www.cdc.gov/hiv/library/slideSets/index.html)*



# Progress in HIV/AIDS

**More Americans with HIV know their status than ever before**

**More than  
3 million  
adults  
were tested for  
HIV in 2013**



CDC. Monitoring selected national HIV prevention and care objectives using HIV surveillance data—United States and 6 dependent areas—2013. *HIV Surveillance Supplemental Report* 2015; 20(2). Available at <http://www.cdc.gov/hiv/library/reports/surveillance/>.

# Behavioral Therapy First for our Youngest Children with ADHD



**\$72B**

**Excess expenses related to ADHD can cost Americans up to \$72 billion per year**

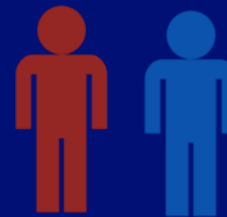


**200,000**

**US children 2 to 5 years of age with a current diagnosis of ADHD**



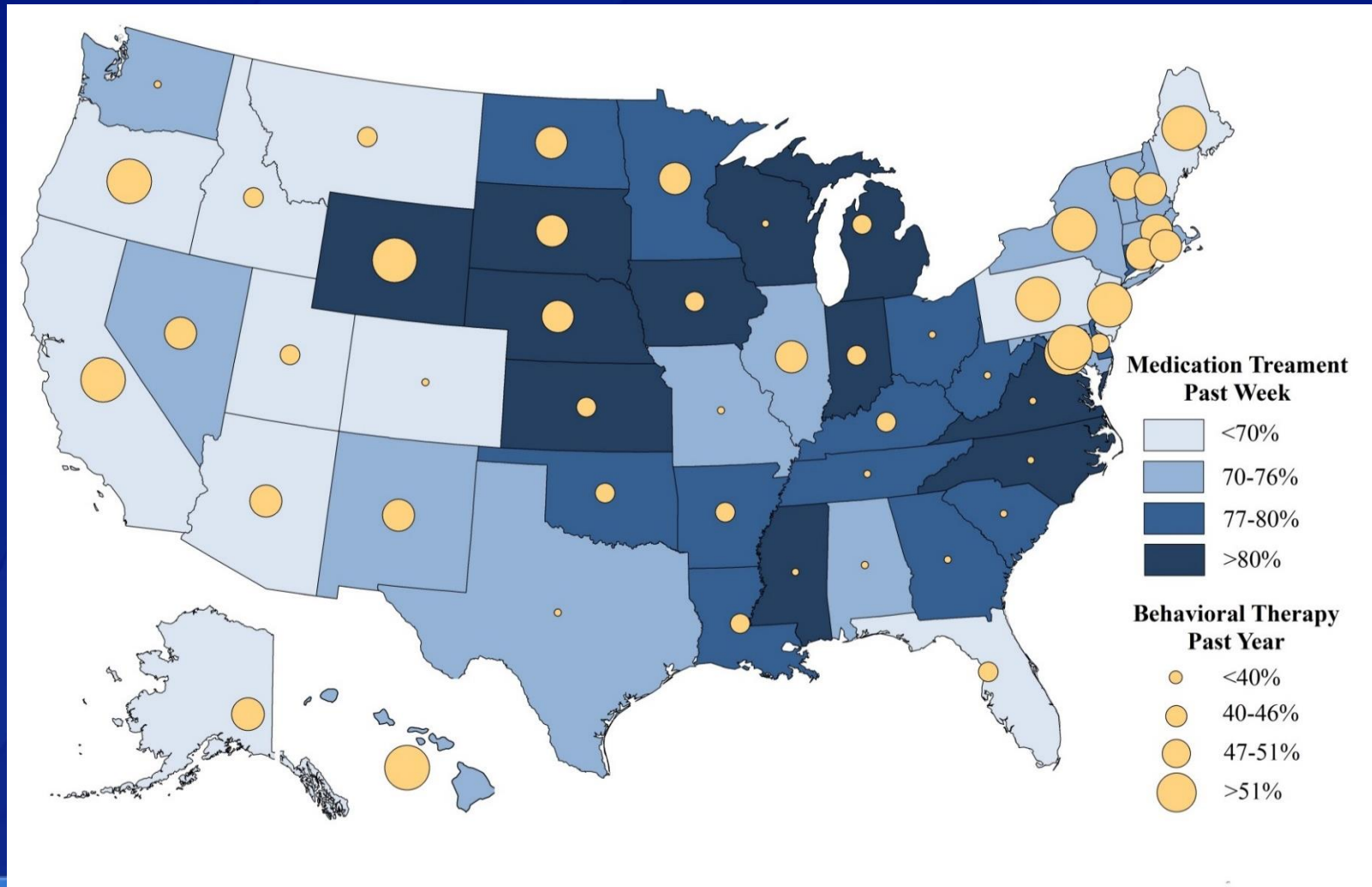
**The % of preschoolers medicated for ADHD has doubled in 4 years**



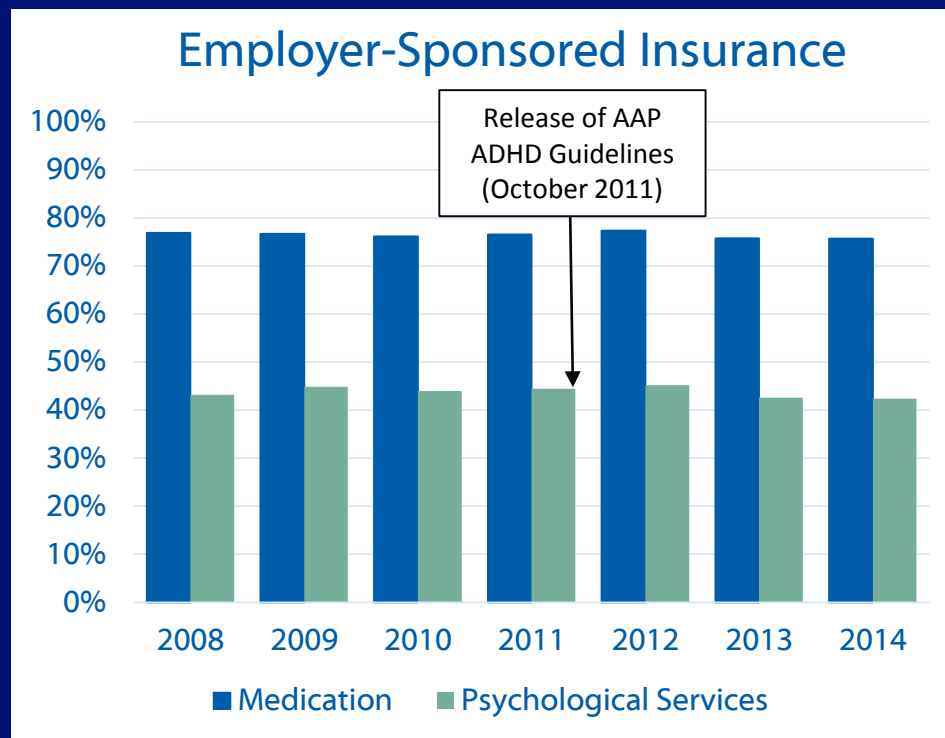
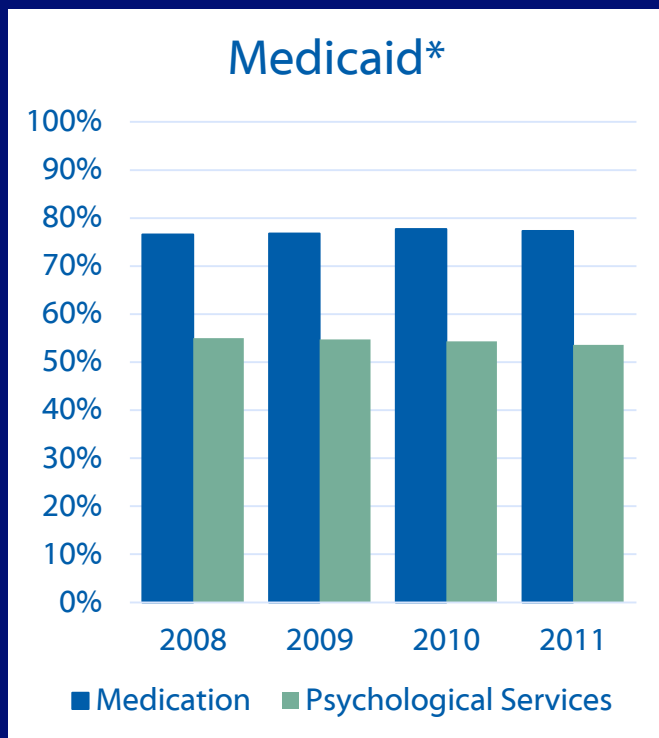
**1 in 2**

**1 in 2 preschoolers do not receive recommended behavioral treatment**

# State Rates of Medication Treatment and Behavioral Therapy among Children with Special Health Care Needs (4-17 Years of Age), 2009-10



# Rates of Medication and Psychological Service Claims over Time, for Children aged 2-5 with ADHD



\* 26 State Programs



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