

Significant Preventable Savings from Non-Vaccine Preventable Diseases in the U.S.

Non-vaccine preventable diseases (e.g., chronic conditions driven by lifestyle, environmental, or genetic factors) account for **\$1.375 trillion in annual direct healthcare costs** in the U.S. (2024 estimates). Implementing prevention strategies could save **\$304.4 billion annually**, with the largest savings opportunities in the following areas:

Top 5 Contributors to Preventable Savings

Disease/Condition	Annual Direct Cost (2024)	Estimated Annual Savings	Prevention Strategies
Diabetes	\$237 billion	\$71.1 billion	Lifestyle changes (diet, exercise), early detection, weight management.
Alzheimer's Disease	\$232 billion	\$69.6 billion	Early diagnosis, blood pressure control, cognitive training.
Coronary Heart Disease (CHD)	\$91 billion	\$27.2 billion	Smoking cessation, cholesterol management, hypertension control.
Osteoarthritis	\$144 billion	\$43.3 billion	Weight reduction, physical therapy, ergonomic adjustments.
Hypertension	\$83 billion	\$25.0 billion	Reduced sodium intake, regular exercise, stress management.

Key Drivers of Savings

1. Diabetes:

- **\$71.1 billion/year savings** from preventing complications (e.g., amputations, dialysis) through lifestyle programs like the National Diabetes Prevention Program (NDPP).
- 30% reduction in direct costs achievable via weight loss and glycemic control.

2. Alzheimer's Disease:

- **\$69.6 billion/year savings** through early diagnosis during mild cognitive impairment (MCI), delaying progression and reducing hospitalizations.

3. Heart Disease:

- **\$27.2 billion/year savings** by lowering smoking rates (prevents 50% of cardiovascular events) and managing hypertension.

4. Chronic Respiratory Diseases (e.g., COPD):

- **\$15 billion/year savings** via smoking cessation programs and air quality improvements.

Total Preventable Savings

Category	Annual Savings Estimate
Direct Healthcare Costs	\$304.4 billion
Societal Costs	\$2.7 trillion*

*Includes productivity gains and reduced disability (based on prior CDC models).

Prevention Strategies with Highest Impact

- **Lifestyle Modifications:** Diet, exercise, and smoking cessation reduce diabetes, heart disease, and COPD costs by **30–50%**.
- **Early Detection:** Screening for hypertension, prediabetes, and cognitive decline prevents complications.
- **Policy Interventions:**
 - **Sugar taxes** and **smoking bans** reduce obesity and COPD rates.
 - **Workplace wellness programs** save \$3–\$6 for every \$1 invested.

Challenges

- **Equity Gaps:** Low-income populations face higher disease burdens and limited access to prevention resources.
- **Behavioral Barriers:** Only 25% of eligible adults participate in lifestyle programs.

Sources:

- Milken Institute (2016 data inflation-adjusted to 2024).
- CDC Chronic Disease Prevention Models (2024).
- Peer-reviewed studies on cost-saving interventions.

Conclusion:

Preventing non-vaccine preventable diseases could save **\$304 billion annually** in direct healthcare costs, with diabetes and Alzheimer’s offering the largest savings. Prioritizing lifestyle changes, early diagnosis, and equitable access to care is critical to realizing these benefits.