Fiscal Policy & Health

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Overview

• Health & Economic Impact of Non-Communicable Diseases
• Impact of Tobacco, Alcohol, and Sugary Beverage Taxes on Use and Consequences of Use
• Myths and Facts About Economic Impact of Taxes

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Health & Economic Impact of NCDs
Leading Causes of Death Globally

Other Conditions include communicable diseases, maternal/perinatal conditions, and nutritional deficiencies
**Total Deaths by Income**

**High-income countries**
- 5.9M Group III - Injuries
- 0.9M Group II – Other deaths from noncommunicable diseases

**Upper middle-income**
- 3.0M Group II – Premature deaths from noncommunicable diseases (below the age of 60), which are preventable
- 1.1M Group I – Communicable diseases, maternal, perinatal and nutritional conditions

**Lower middle-income**
- 2.3M Group III - Injuries
- 3.3 M Group II – Other deaths from noncommunicable diseases
- 3.0M Group II – Premature deaths from noncommunicable diseases (below the age of 60), which are preventable

**Low-income countries**
- 2.3M Group III - Injuries
- 6.8 M Group II – Other deaths from noncommunicable diseases
- 3.7M Group II – Premature deaths from noncommunicable diseases (below the age of 60), which are preventable
- 13.6M Group I – Communicable diseases, maternal, perinatal and nutritional conditions

Source: WHO 2010
Economic Consequences of NCDs

• Large economic burden from NCDs:
  • Considerable, growing health care costs from treating NCDs
  • Significant lost productivity
  • Cause of poverty
  • Account for much of inequalities in health
Significant Economic Costs

Source: World Economic Forum & Harvard School of Public Health
Growing Economic Costs

Figure 2: Cumulative NCD loss, beginning in 2011

# NCDs: Major Risk Factors

<table>
<thead>
<tr>
<th>Major NCD</th>
<th>Tobacco Use</th>
<th>Unhealthy Diet</th>
<th>Physical Inactivity</th>
<th>Harmful Use of Alcohol</th>
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</thead>
<tbody>
<tr>
<td>Heart Disease &amp; Stroke</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Diabetes</td>
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<tr>
<td>Cancer</td>
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<tr>
<td>Chronic Lung Disease</td>
<td>✓</td>
<td></td>
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</tr>
</tbody>
</table>

Source: WHO, 2010; Mackay, 2012
Impact of Taxes & Prices on Unhealthy Behaviors
"Sugar, rum, and tobacco, are commodities which are nowhere necessaries of life, which are become objects of almost universal consumption, and which are therefore extremely proper subjects of taxation."
Economics 101

• Law of the downward sloping demand curve:
  • Increase in price leads to reduction in the quantity consumed and vice-versa

• Price elasticity of demand
  • Percentage reduction in quantity demanded resulting from one percent increase in price
Taxes, Prices & Tobacco Use
Tobacco Consumption and Cigarette Prices
New Zealand, 1990-2013, Inflation Adjusted

Sources: EIU, World Bank and OECD
Cigarette Price & Consumption
Hungary, 1990-2011, Inflation Adjusted

Sources: EIU, ERC, and World Bank
Cigarette Prices & Adult Smoking Prevalence
United States, Inflation Adjusted 1970-2013

Sources: Tax Burden on Tobacco, BLS, NHIS, and author’s calculations
Adult Prevalence & Price, Brazil

Adult Smoking Prevalence and Cigarette Price
Brazil, Inflation Adjusted, 2006-2013

Sales, Million Sticks
Price per Pack, 2013 BRL

Sources: Ministry of Health, Brazil; EIU; World Bank
Monthly Quit Line Calls, United States
11/04-11/09

4/1/09 Federal Tax Increase
1/1/08 WI Tax Increase
Cigarette Prices and Cessation
US States, 2009

% Ever Smokers Who Have Quit

Average price (in cents)

Source: BRFSS, *Tax Burden on Tobacco*, 2010, and author’s calculations
Cigarette Price & Youth Smoking Prevalence
Chile, 2000-2015

Source: Paraje, 2017
Tobacco Taxes in Ukraine, 2008-2015

- Average excise rate for cigarettes – increased 10-fold
- Annual tobacco excise revenue – increased 6-fold
- Cigarette sales – decreased by 40%
- Daily smoking prevalence - decreased by 28%

Source: Syvak & Krasovsky, 2017
France: smoking, tax and male lung cancer, 1980-2010

Lung cancer death rates per 100,000 (divided by four): men age 35-44

Source: Jha, in progress
Alcohol Prices & Drinking

- Similarly extensive econometric and other research shows that higher prices for alcoholic beverages significantly reduce drinking:
  - 10 percent price increase would reduce:
    - Beer consumption by 1.7 to 4.6 percent
    - Wine consumption by 3.0 to 6.9 percent
    - Spirits consumption by 2.9 to 8.0 percent
    - Overall consumption by 4.4 percent
    - Heavy drinking by 2.8 percent
    - Generally larger effects on youth and young adults

Source: Wagenaar et al., 2009
Beer Tax and Binge Drinking Prevalence
US States, 2010

Source: Xuan et al., 2013
Alcohol Prices & Consequences

- Extensive econometric and other research shows that higher prices for alcoholic beverages significantly reduce:
  - Drinking and driving, traffic crashes, and motor-vehicle accident fatalities

Source: Xin & Chaloupka, 2012; Wagenaar et al., 2010

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Alcohol Prices and Alcohol-Related Traffic Fatalities, US, All Ages, 1987-1993

Source: NHTSA, BLS, and author’s calculations
Alcohol Prices and Alcohol-Related Traffic Fatalities, US, Ages 16-20, 1987-1993

Source: NHTSA, BLS, and author’s calculations
Alcohol Prices & Consequences

• Econometric and other research shows that higher prices for alcoholic beverages significantly reduce:
  • Deaths from liver cirrhosis, acute alcohol poisoning, alcohol-related cancers, cardiovascular diseases, and other health consequences of excessive drinking
  • Violence (including spouse abuse, child abuse, and suicide) and other crime
  • Other consequences of drinking, including work-place accidents, teenage pregnancy, and incidence of sexually transmitted diseases

Source: Xin & Chaloupka, 20129; Wagenaar et al., 2010
Alcohol Prices & Consequences

- Recent systematic review concluded:
  - Doubling of alcohol taxes would reduce:
    - Alcohol-related mortality by 35%
    - Traffic crash deaths by 11%
    - Sexually transmitted disease by 6%
    - Violence by 2%
    - Crime by 1.4%

Source: Wagenaar et al., 2010

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Taxes, Prices & Diet
Extensive economic research on the impact of food and beverage prices on consumption of various products; estimates suggest 10% own-price increase would reduce:

- Cereal consumption by 5.2%
- Soft drink consumption by 7.8%
- Sweets consumption by 3.5%
- Food away from home consumption by 8.1%

Source: Andreyeva, et al., 2010
Our more recent review finds similar evidence, with 10% increase in own-price leading to reductions in:

- Sugar-sweetened beverage consumption by 12.1%
- Fruit consumption by 4.9%
- Vegetable consumption by 4.8%
- Fast food consumption by 5.2%

Source: Powell, et al., 2013
Sweet & Savory Snack Prices & Consumption
Percentage Change, 2000-2014, Selected Countries

Source: Euromonitor, 2015, and author’s calculations
Soft Drink Prices & Consumption
Percentage Change, 2000-2014, Selected Countries

Source: Euromonitor, 2015, and author’s calculations
Taxes, Prices & Obesity
Selected Food Price & Adult Weight Trends
United States, 1961-2009, Inflation Adjusted

Selected Food Price & Youth Weight Trends
United States, 1971-2009, Inflation Adjusted

Selected Food Price & Adult Weight Trends
United States, 1961-2009, Inflation Adjusted

Selected Food Price & Youth Weight Trends
United States, 1971-2009, Inflation Adjusted

Prices and Weight Outcomes

While mixed, the weight of the evidence increasingly indicates that changes in relative prices for healthier and less healthy foods will affect weight outcomes, with greater impact on:

- Lower income, less educated populations
- Younger populations
- Populations at greater risk for obesity

Source: Powell, et al., 2013
Prices and Weight Outcomes

Subsidies alone likely to be counter-productive:

- Increase consumption of subsidized products
- Income effect leads to increased consumption of other products
- Net increase in caloric intake
Sugary Beverage Taxes
Rationale for SSB Taxes

• Link to obesity
  • Several meta-analyses conclude that increased SSB consumption causes increased weight, obesity
  • Increased calories from SSBs not offset by reductions in calories from other sources

• Other health consequences
  • Type 2 diabetes, lower bone density, dental problems, headaches, anxiety and sleep disorders
Soda Consumption & Obesity
Selected Countries

Source: Soda consumption from Euromonitor, 2011; Obesity prevalence from OECD Health Data, 2005
Change in Soft Drink Affordability 2000-2013, Selected Countries

Source: Euromonitor, 2015, and author’s calculations
Soda Taxes in the U.S.

Mixed evidence for impact of U.S. soft drink taxes on obesity:

• Small state sales taxes
• Do not differentiate sugary vs. low/no calorie beverages
  • often taxes on healthier options
• Are not comprehensive
• Estimates suggest that tax needs to raise price by at least 20% to have an impact on weight outcomes

Source: Powell, et al., 2013
Soda Taxes in Mexico

Evidence from Mexico’s peso per liter SSB tax;

• Increased prices for SSBs relative to non-taxed beverages
  • about 10% price increase
  • pass through varies by type, size, location
• Significant reduction in SSB sales, consumption
  • growing over time
• Significant increase in bottled water consumption
• Greater impact on heavier consumers, low-income population

Sources: Colchero, et al., 2015; Colchero, et al., 2016; Colchero, et al., 2015; Ng, et al., under review

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Impact of Tax on Sales
Mexico, 2007-2016

Impact on SSB sales consistent with reductions in purchases:
• 6% drop in 2014
• 8% drop in 2015
• 11% drop in first half of 2016

5.2% increases in bottled water sales

OLS- Adjusted for seasonality, the global indicator of the economic activity


Impact of Tax on Purchases
Year One (2014)

• Purchases of taxed beverages reduced in all SES groups
• Reductions in purchases greatest among lowest SES households
  • 9% decline in 2014

Colchero MA, Popkin BM, Rivera JA, Ng SW. Beverage purchases from stores in Mexico under the excise tax on sugar sweetened beverages: observational study. BMJ 2015;352
Impact of Tax on Purchases
Year One (2014)

- Greatest impact on heaviest consumers
  - Highest purchasers:
    - 31% of households, purchased average of 157 liters of SSB/capita/yr
    - 10% reduction in purchases following tax
  - Middle purchasers:
    - 40% of households, purchased average of 60 liters of SSB/capita/yr
    - 8% reduction of taxed beverages post-tax
  - Light and non purchasers:
    - Remaining households; small impact on light purchasers
Oppositional Arguments
Fiscal Policy & NCDs

Fig. 1.9 Fiscal interventions to address NCD risk factors, 2013, by WHO region and by World Bank income group.

- Taxation on alcohol
- Taxation on high sugar content food and non-alcoholic beverages
- Price subsidies for healthy foods
- Taxation on tobacco
- Taxation on high fat foods
- Taxation incentives to promote physical activity

AFR = African Region, AMR = Region of the Americas, SEAR = South-East Asia Region, EUR = European Region, EMR = Eastern Mediterranean Region, WPR = Western Pacific Region
Common Oppositional Arguments

• Industries and allies use several common arguments in opposition to tax increases:
  • Won’t have the intended impact in terms of reducing use and consequences
  • Will lead to extensive tax avoidance and tax evasion
  • Will harm poor and working class consumers
  • Will lead to massive job losses

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Tax Avoidance & Evasion
Tax Avoidance & Evasion Do NOT Eliminate Health Impact of Higher Taxes

Source: Schroth, 2014
Tax Avoidance & Evasion Do NOT Eliminate Revenue Impact of Higher Taxes

Cook County Cigarette Tax and Tax Revenues - FY01-FY06
Illicit Cigarette Market Share & Cigarette Prices, 2012

Illicit trade share as % of legal cigarette consumption

Price USD

Sources: Euromonitor, WHO
Drivers of Illicit Tobacco

- Corruption
- Weak tax administration
- Poor enforcement
- Presence of informal distribution networks
- Presence of criminal networks
- Access to cheaper sources

Sources: NRC/IOM 2015; NCI/WHO 2016
Smuggling and Corruption, 2011

Sources: Euromonitor, Transparency International
Figure 12 – Estimated Volumes of Cigarettes Consumed in the U.K. – Duty paid, illicit, and cross-border shopping, 2000-01 – 2013-14

Source: HM Revenue & Customs, 2014
Combating Illicit Tobacco Trade

• Illicit trade protocol to the WHO FCTC
  – Adopted November 2012; currently in process of being signed/ratified; provisions calling for:
  – Strong tax administration
    • Prominent, high-tech tax stamps and other pack markings
    • Licensing of manufacturers, exporters, distributors, retailers
    • Export bonds
    • Unique identification codes on packages
  – Better enforcement
    • Increased resources
    • Focus on large scale smuggling
  – Swift, severe penalties
  – Multilateral/intersectoral cooperation

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Beverage Tax Avoidance & Evasion

Little evidence of significant tax avoidance & evasion

- low taxes relative to prices
- costly to avoid/evade taxes

- Illinois – recent experiences with beer taxes
  - IL – raised tax from 7 cents/gallon to 18.5 cents/gallon, August 1999; again to 23.1 cents/gallon September 2009
  - Iowa – 19 cents/gallon throughout
  - Indiana - 11.5 cents/gallon throughout
  - Wisconsin – 6.45 cents/gallon throughout
Percent Change in State Beer Taxes Revenues, IL, IN, IA & WI, 1998-2000

- IL: 167.3%
- IA: 3.5%
- IN: 2.8%
- WI: -3.5%

Source: Brewers’ Almanac, 2013, and author’s calculations
Percent Change in Beer Taxes Revenues
IL, IA, IN, WI 2008-2010

Source: Brewers’ Almanac, 2013, and author’s calculations
Impact on the Poor
Tobacco & Poverty

Forgone Income 1: More money spent on tobacco: high opportunity cost. Less money spent on education, nutrition, etc.

Forgone Income 2: Due to treatment cost and loss of work days

Forgone Income 3: Due to premature death

Income increases

Youth and women start smoking and men smoke more

Higher prevalence and consumption level

Breadwinner gets sick due to tobacco use

Family falls into poverty

Vicious Cycle of Tobacco and Poverty

Source: NCI & WHO 2016

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Impact on the Poor

• Concerns about the regressivity of higher alcohol & tobacco taxes, food/beverage taxes
  • Most excise taxes are regressive, but tax increases can be progressive
    • Greater price sensitivity of poor – relatively large reductions in use among lowest income populations, small reductions among higher income populations
  • Health benefits that result from tax increase are progressive
Who Pays & Who Benefits
Turkey, 25% Tax Increase

Source: Adapted from Önder & Yürekli, 2014

Change in Consumption  Change in Taxes Paid

Poorest: -35.3%  -2.2%
Middle: -20.4%  8.5%
Richest: -18.5%  9.7%

Source: Adapted from Önder & Yürekli, 2014
Impact on the Poor

– Need to consider overall fiscal system

  • Key issue with taxes is what’s done with the revenues generated by the tax
  • Greater public support for tax increases when revenues are used for prevention & control programs and/or other health programs
  • Net financial impact on low income households can be positive when taxes are used to support programs targeting the poor
  • Concerns about regressivity offset by use of revenues for programs directed to poor
Philippines ‘Sin Tax’ Reform

National Government Allocation for Health Insurance Premiums for the Poor

Source: Paul, 2016

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Impact on the Economy
Excise Taxes and Jobs

Industries argue that production and consumption of their products makes a significant economic contribution

- employment in farming, manufacturing, distribution, retailing, and related sectors
- multiplier effects as income earned in these jobs is spent on other goods & services
Excise Taxes and Jobs

Industry-sponsored studies tell only part of story:

• Focus on the gross impact:
  • New tax or tax increase will lead to decreased consumption of taxed product
  • Results in loss of some jobs dependent on production of taxed product

• Ignore the net impact:
  • Money not spent on taxed product will be spent on other goods and services
  • New/increased tax revenues spent by government
    • *Offsetting job gains in other sectors*
Tobacco Taxes and Jobs

• Many published studies assess impact of reductions in tobacco use from tax increases and/or other tobacco control measures:
  • Variety of high, middle, and low income countries
  • Use alternative methodologies
• Generally find that employment losses in tobacco sector more than offset by gains in other sectors

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Tobacco Taxes and Jobs

Concerns about job losses in tobacco sector have been addressed using new tax revenues:

- Turkey, Philippines among countries that have allocated tobacco tax revenues to helping tobacco farmers and/or those employed in tobacco manufacturing make transition to other livelihoods
  - Crop substitution programs, retraining programs

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Employment changes associated with the introduction of taxes on sugar-sweetened beverages and nonessential energy-dense food in Mexico

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ABSTRACT

We assessed changes in employment in the manufacturing industry, the commercial sector and national unemployment rates, associated with the fiscal policies implemented in 2014 in Mexico: a 1 peso per liter excise tax to sugar-sweetened beverages (SSB) and an 8% tax on nonessential energy-dense food. We used data from three nationally representative surveys. Controlling for contextual variables, we used interrupted time series analyses to model changes in number of employees in the SSB and nonessential energy-dense food industry, in commercial establishments selling beverages and food and changes in national unemployment rates. Our results show that there were no significant changes in employment associated with the taxes in the manufacturing industries (for beverages and nonessential energy-dense food). We found a very small increasing trend in the post-tax period for employment in commercial stores and a decreasing trend in the unemployment rate. However, these changes are negligible and unlikely to be caused by the implementation of the taxes. In conclusion, there were no employment reductions associated with the fiscal policies implemented in Mexico in 2014 on SSB and nonessential energy-dense food.
A- Sugar-sweetened beverages industry

Thousands of employees, Mexico, 2007-2016; Guerrero-Lopez, et al., 2017
B- Nonessential energy-dense food industry

Thousands of employees, Mexico, 2007-2016; Guerrero-Lopez, et al., 2017
Fig. 2. Thousands of employees in commercial establishments. Mexico, EMEC, 2011–2015.
Fig. 3. National unemployment rate. Mexico, ENOE 2005–2016.
Employment impacts of alcohol taxes

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\begin{abstract}
There is strong scientific evidence supporting the effectiveness of increasing alcohol taxes for reducing excessive alcohol consumption and related problems. Opponents have argued that alcohol tax increases lead to job losses. However, there has been no comprehensive economic analysis of the impact of alcohol taxes on employment. To fill this gap, a regional macroeconomic simulation model was used to assess the net impact of two hypothetical alcohol tax increases (a 5-cent per drink excise tax increase and a 5% sales tax increase on beer, wine, and distilled spirits, respectively) on employment in Arkansas, Florida, Massachusetts, New Mexico, and Wisconsin. The model accounted for changes in alcohol demand, average state income, and substitution effects. The employment impact of spending the new tax revenue on general expenditures versus health care was also assessed. Simulation results showed that a 5-cent per drink additional excise tax on alcoholic beverages with new tax revenues allocated to general expenditures increased net employment in Arkansas (802 jobs); Florida (4583 jobs); Massachusetts (978 jobs); New Mexico (653 jobs); and Wisconsin (1167 jobs). A 5% additional sales tax also increased employment in Arkansas (789 jobs); Florida (4493 jobs); Massachusetts (898 jobs); New Mexico (621 jobs); and Wisconsin (991 jobs). Using new alcohol tax revenues to fund health care services resulted in slightly lower net increases in state employment. The overall economic impact of alcohol tax increases cannot be fully assessed without accounting for the job gains resulting from additional tax revenues.
\end{abstract}
Table 3
Simulated impacts of alcohol tax increases on employment (number of jobs) by government revenue allocation in Arkansas, Florida, Massachusetts, New Mexico, and Wisconsin.

<table>
<thead>
<tr>
<th>State</th>
<th>Gross (5-Cent excise tax)</th>
<th>Gross (5% sales tax)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkansas</td>
<td>-323</td>
<td>-408</td>
</tr>
<tr>
<td>Net (general revenue)</td>
<td>802</td>
<td>789</td>
</tr>
<tr>
<td>Net (health care sector)</td>
<td>67</td>
<td>11</td>
</tr>
<tr>
<td>Florida</td>
<td>-3281</td>
<td>-4042</td>
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<tr>
<td>Net (general revenue)</td>
<td>4583</td>
<td>4493</td>
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<tr>
<td>Net (health care sector)</td>
<td>1048</td>
<td>687</td>
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<tr>
<td>Massachusetts</td>
<td>-1009</td>
<td>-1248</td>
</tr>
<tr>
<td>Net (general revenue)</td>
<td>978</td>
<td>898</td>
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<tr>
<td>Net (health care sector)</td>
<td>250</td>
<td>121</td>
</tr>
<tr>
<td>New Mexico</td>
<td>-334</td>
<td>-390</td>
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<tr>
<td>Net (general revenue)</td>
<td>653</td>
<td>621</td>
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<tr>
<td>Net (health care sector)</td>
<td>139</td>
<td>98</td>
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<tr>
<td>Wisconsin</td>
<td>-1078</td>
<td>-1315</td>
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<tr>
<td>Net (general revenue)</td>
<td>1167</td>
<td>991</td>
</tr>
<tr>
<td>Net (health care sector)</td>
<td>1064</td>
<td>887</td>
</tr>
</tbody>
</table>

* Health care sectors consist of health practitioners; outpatient, laboratory, and other ambulatory care services; home health care services; hospitals; and nursing and residential care facilities.
Summary
Conclusions

• Higher tobacco and alcohol taxes, and new sugary beverage taxes will significantly reduce consumption.

• Reduced consumption will lead to fewer cases of cancer, cardiovascular disease, diabetes, and other non-communicable diseases.

• Counterarguments about negative economic impact false or greatly overstated.

• Taxes generally considered one of the “best buys” in NCD prevention.

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“Noncommunicable diseases are a growing global crisis, especially in low-and-middle income countries. There’s substantial evidence that taxes and fiscal policies are essential to confronting this health threat. This Task Force will explore which policies can make the biggest difference and help them spread, saving millions of lives.”
MIKE BLOOMBERG

The Task Force on Fiscal Policy for Health – announced by Mike Bloomberg and economist Larry Summers, former Secretary of the U.S. Treasury and former Director of the National Economic Council – brings together esteemed fiscal policy, development and health leaders from around the globe to address the enormous and growing health and economic burden of noncommunicable diseases – including cardiovascular disease, cancer, chronic respiratory diseases and diabetes – with fiscal policy tools that are currently underutilized by governments and their leaders.

“We have strong evidence from around the world that raising taxes on products like tobacco, sugar sweetened beverages and alcohol is highly effective at reducing harmful consumption and saving lives. I’m grateful for the commitment of this impressive group of leaders, whose expertise and experience will help the Task Force bring attention to the enormous potential of fiscal policies for health.”
LARRY SUMMERS
THANK YOU!

For more information:

Bridging the Gap
http://www.bridgingthegapresearch.org

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