

Global Tobacco Epidemic and Public Health Response

Accessible version: https://youtu.be/nygtR03cwNA





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Outline

- Profile of global tobacco use
- Current and projected tobacco-related mortality and economic burden
- Role of the tobacco industry
- Public health tools to combat tobacco use



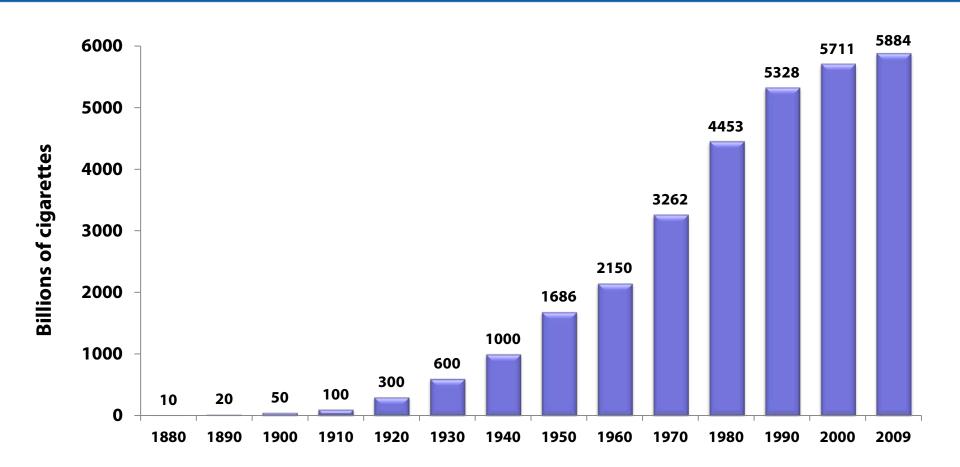
Tobacco and Smokeless Tobacco Come in Many Forms





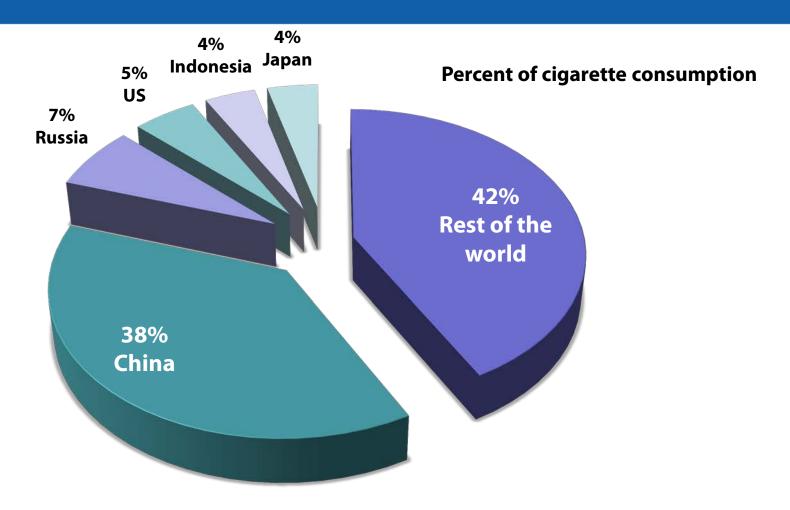


Global Cigarette Consumption in One Century Increased over 100 Times



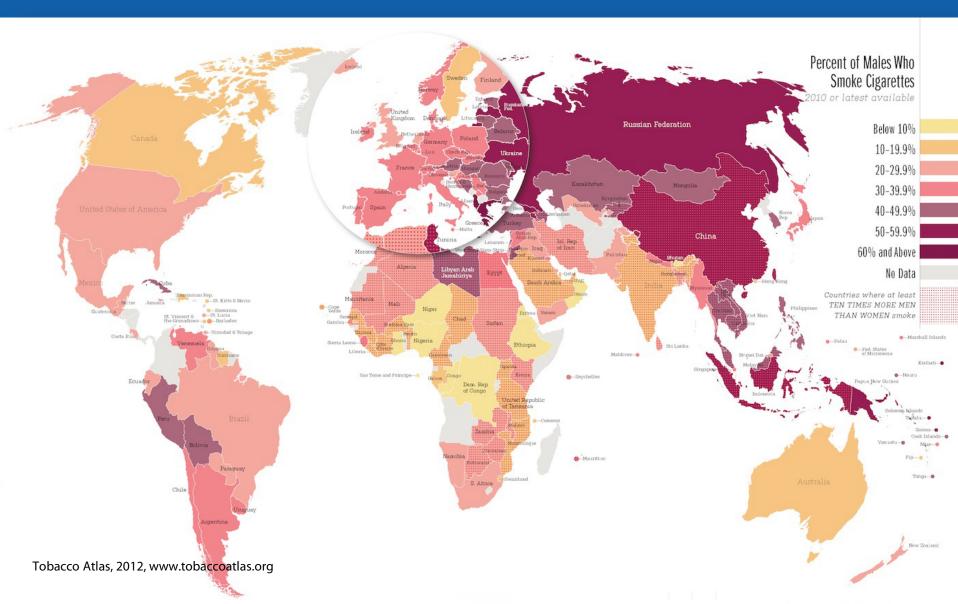


Nearly 2/3 of the World's Smokers Live in Just 10 Countries



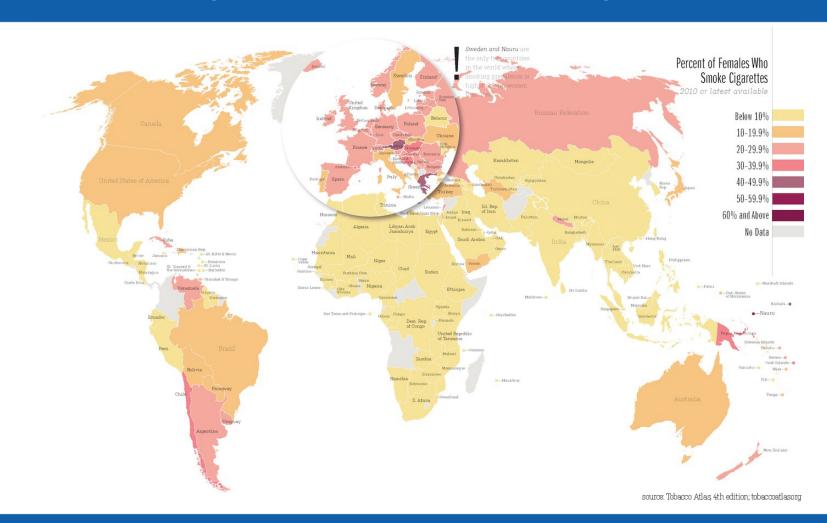


Male Smoking Prevalence (2010 or latest available)



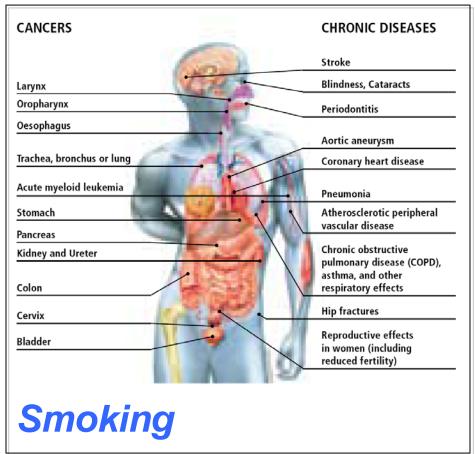


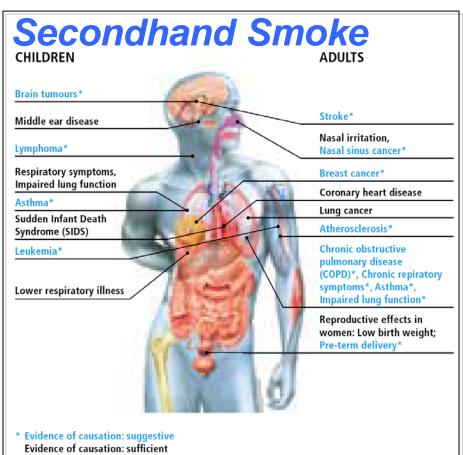
Female Smoking Prevalence (2010 or latest available)





Smoking and Secondhand Smoke Damage Every Part of the Body







Tobacco: The Only Risk Factor Shared by Four Major Non-communicable Diseases

	Tobacco use	Unhealthy diets	Lack of physical activity	Use of alcohol
Cardiovascular	\Rightarrow	*	*	*
Diabetes	\bigstar	*	*	*
Cancer	\Rightarrow	*	*	*
Chronic Respiratory	\Rightarrow			



Global Burden of Tobacco Past and Present

- ☐ Tobacco killed 100 million people in the 20th century
- Tobacco use is now the world's single leading preventable cause of death
 - Kills more people than HIV/AIDS, TB, and malaria combined
 - Responsible for >15% of deaths among men and 7% among women
- Almost 6 million tobacco-caused deaths in 2011
- Tobacco kills up to half of lifetime smokers
- Smokers die an average of 14 years earlier than non-smokers



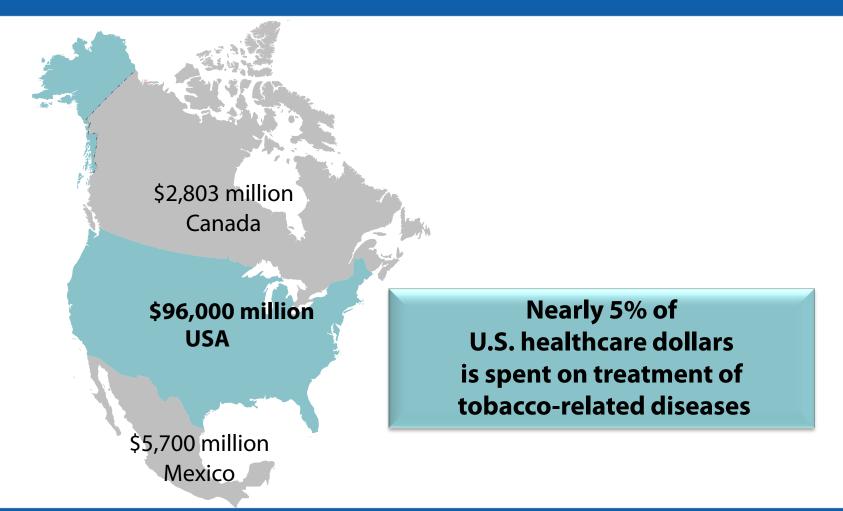
More Than 600,000 Deaths Caused by Secondhand Smoking, 2004

Men	Women	Children				
26%	47%	28%				
156,000	281,000	166,000				
700 ₂₀₀	√ 75% of secondhan	d smoke deaths				

75% of secondhand smoke deaths occur among women and children



Economic Burden of Tobacco-related Diseases Direct Cost of Smoking





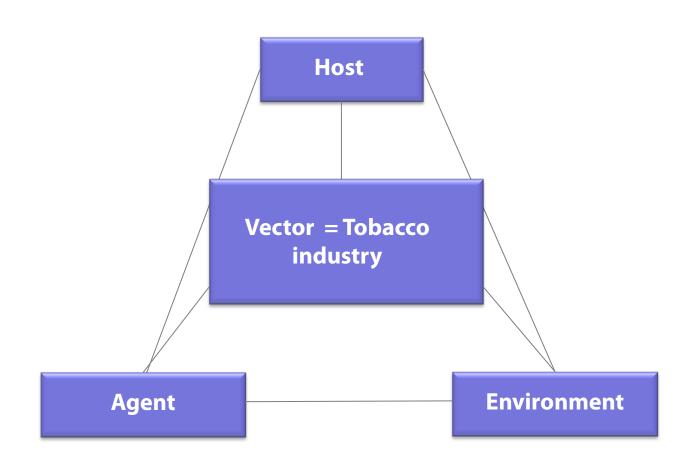
Future Global Burden of Tobacco

- Without urgent action, 1 billion people will die from tobacco in the 21st century
 - > 500 million deaths among persons alive today
 - Unchecked, worldwide deaths from tobacco products will exceed 8 million a year by 2030

Every death from tobacco products is preventable!

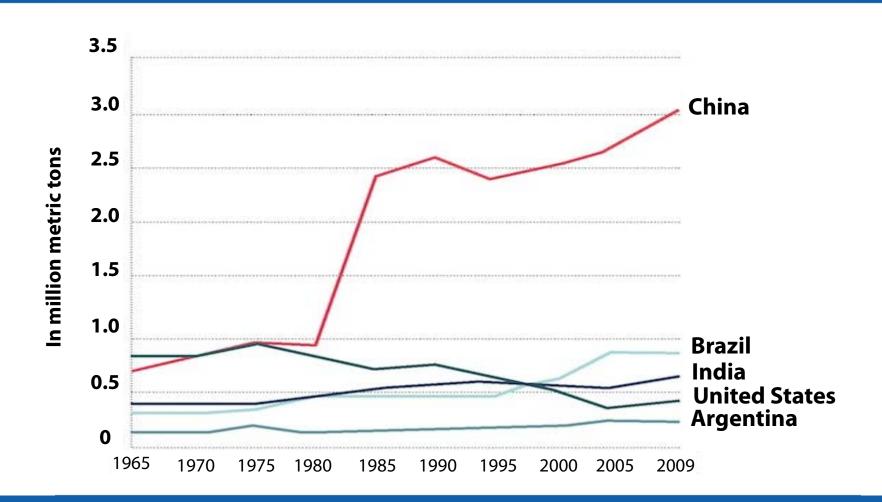


Vector of Disease





Trend in Tobacco Production Production Quantity in Million Metric Tons, 1965–2009



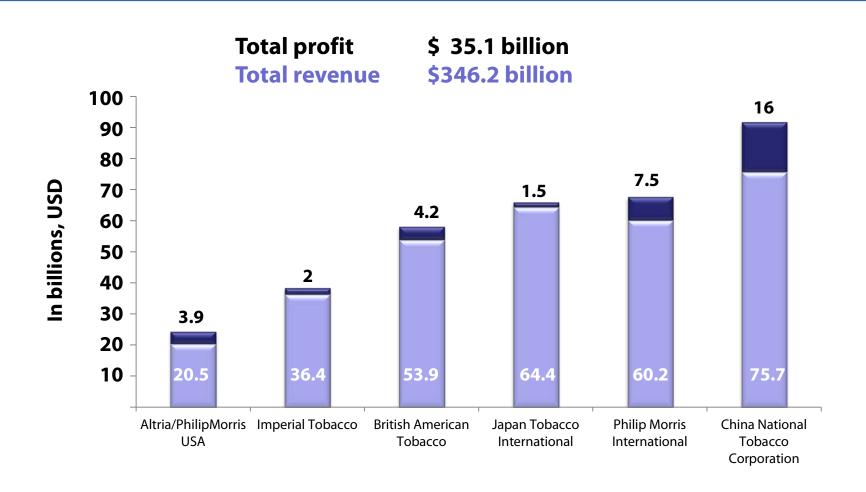


Global Cigarette Market Share, 2008

Company	Cigarettes (billions)	Share of global market
China National Tobacco Company	2,143	38.3%
Philip Morris International	869	15.5%
British American Tobacco	830	14.8%
Japan Tobacco	612	10.9%
Imperial (UK)	329	5.9%
Altria/Philip Morris USA	169	3.0%
Korea Tobacco & Ginseng (S. Korea)	102	1.8%
RJ Reynolds	90	1.6%



Tobacco Company Revenue and Profits Top 6 Companies, 2010





Marketing in the United States Cigarette Marketing Expenditures, 2008

- \$9.9 billion was spent on cigarette advertising and promotion
 - > \$34 for every man, woman, and child
- 83% of the tobacco companies' marketing budgets are spent on price discounts, coupons, and retail valueadded promotions
- In general, in the United States, tobacco companies spent almost twice as much on marketing as junk food, soda, and alcohol companies combined



Undue Influence



"Genius comes from hard work.

Tobacco helps you to be successful."





Monitor tobacco use and prevention policies

Protect people from tobacco smoke

Offerhelp to quit tobacco use

Warn about the dangers of tobacco

Enforce bans on tobacco advertising, promotion and sponsorship

Raise taxes on tobacco



Conclusions

□ The tobacco epidemic will cause the most harm to low- and moderate-income countries with high population

- Tobacco use is growing fastest in these countries, fueled by steady population growth
- The tobacco industry is expanding its advertising, marketing, and promotion to the developing world
- Many of these countries have fewer resources to respond to the health, social, and economic problems caused by tobacco use, which will exacerbate the tobacco epidemic's impacts
- This will create a 'perfect storm' of future tobacco-caused disease and death, unless there is a strong response from the public health community



Global Tobacco Surveillance System: From Data to Action



Samira Asma, DDS, MPH

Chief, Global Tobacco Control Branch
Office on Smoking and Health
Centers for Disease Control and Prevention





GTSS: Global Tobacco Surveillance System

- A set of globally standardized surveys
- Monitoring not only the problem of tobacco use, but also tobacco control solutions
- Enhance capacity to design, implement, monitor an evaluate tobacco control policies





WHO FCTC Monitoring Protocol 20.2



"...integrate tobacco surveillance programs into national, regional, and global health surveillance programs so that data are comparable and can be analyzed at the regional and international levels, as appropriate."



GTSS: Global Tobacco Surveillance System

GYTS GLOBAL YOUTH TOBACCO SURVEY

GATS GLOBAL ADULT TOBACCO SURVEY

TQS TOBACCO QUESTIONS FOR SURVEYS



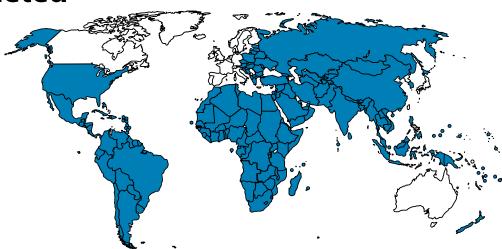






GYTS: Global Youth Tobacco Survey 1999–2012

- Largest public health surveillance system
- School-based surveys of students 13–15 years
- Self-administered using global standard protocol
- National, state or provincial
- ☐ 180 countries/sites completed





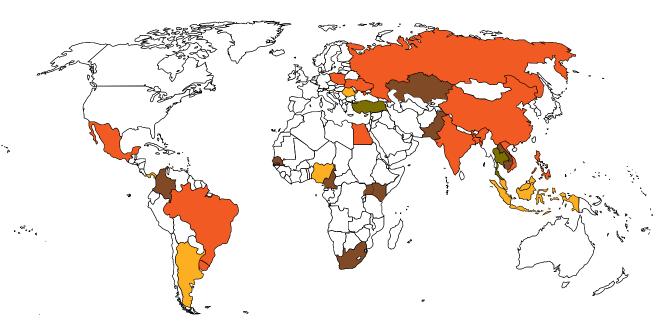
GYTS: Global Youth Tobacco Survey Key Findings



- 1 in 10 students currently smoke cigarettes
- 1 in 10 students currently use other tobacco products
- 1 in 4 smokers first tried by age 10
- 2 in 3 smokers want to quit
- 4 in 10 students exposed to secondhand smoke in homes and over half in public places



GATS: Global Adult Tobacco Survey 2008–2012



Phase 1

Bangladesh, Brazil, China, Egypt, India, Mexico, Philippines, Poland Russian Federation, Thailand, Turkey, Ukraine, Uruguay, Viet Nam

Phase 2

Argentina, Indonesia, Malaysia, Nigeria, Panama, Qatar, Romania

Phase 3 ≥

Cambodia, Cameroon, Colombia, Kazakhstan, Kenya, Laos, Pakistan, Senegal, South Africa, Uganda

Repeats

Thailand, Turkey

- Nationally representative household surveys
- Active in 31 countries

- Covers 66% of world's population
- Covers 68% of world's smokers



GATS: Global Adult Tobacco Survey

GATS in numbers

- 1 million household level data
- > 350,000 household interviews
- > 50 languages and dialects
- > 3,600 fieldworkers trained
- > 3,000 handhelds
- > 1,500 fieldwork days

65 million data points collected representing 3.6 billion people!









GATS: Global Adult Tobacco Survey Standard Protocol

- Core questionnaire and optional questions
- Sampling design
- Series of manuals and guidelines
- Expert review committees
 - Questionnaire review
 - Sample design and weighting
- Electronic data collection



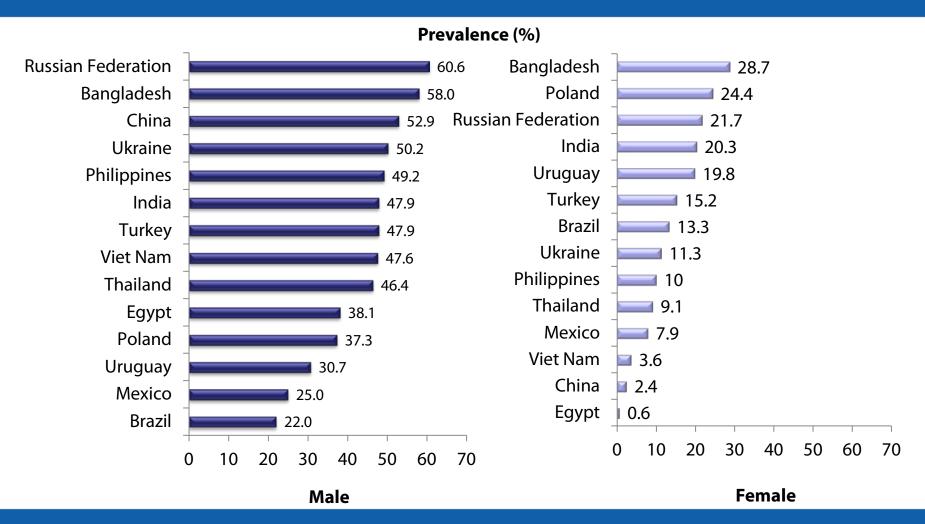


GATS: Global Adult Tobacco Survey Key Findings

- ☐ 794 million adults currently use tobacco
- ☐ 350 million exposed to secondhand smoke at work
- 5 in 10 current smokers plan to quit or thinking about quitting
- 2 in 10 noticed cigarette marketing in stores where cigarettes are sold



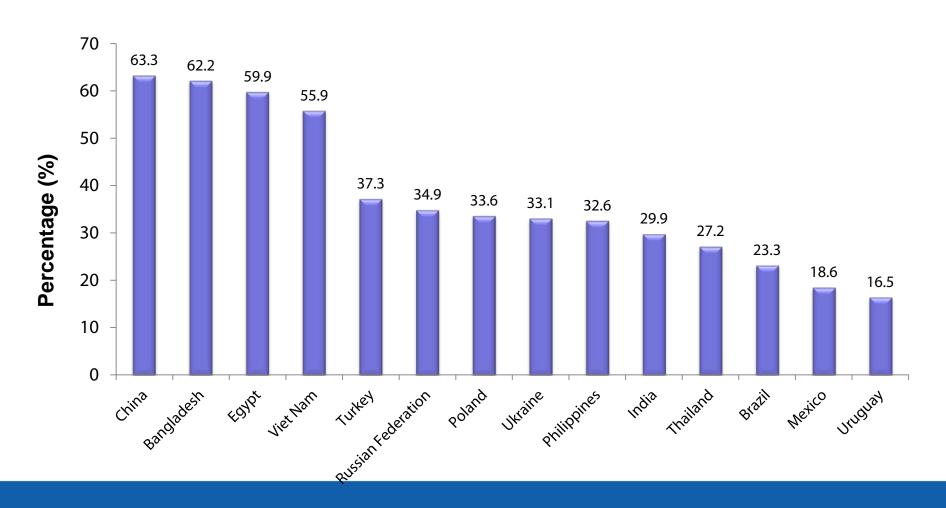
MonitorTobacco Use by Gender



Global Adult Tobacco Survey, 2008-2010, http://apps.nccd.cdc.gov/GTSSData/default/default.aspx

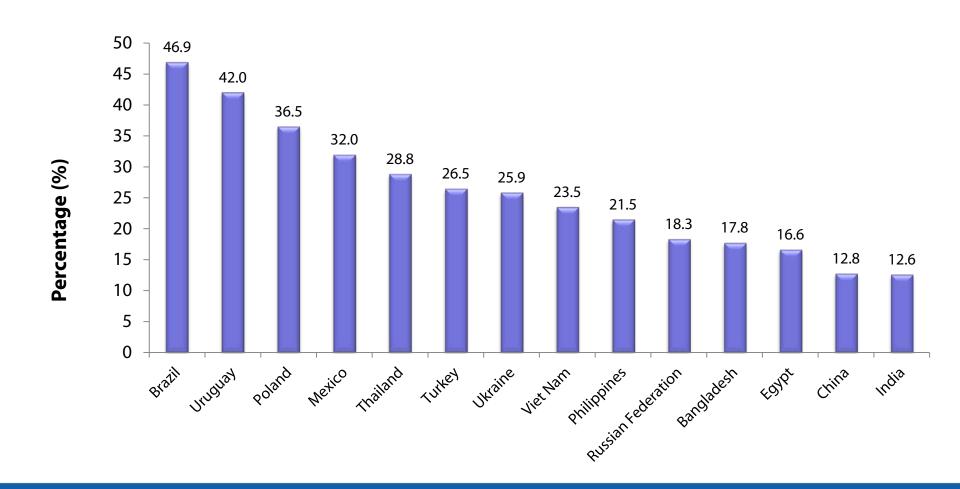


ProtectExposure to Secondhand Smoke at Workplace





Offer Help Former Smokers Who Quit





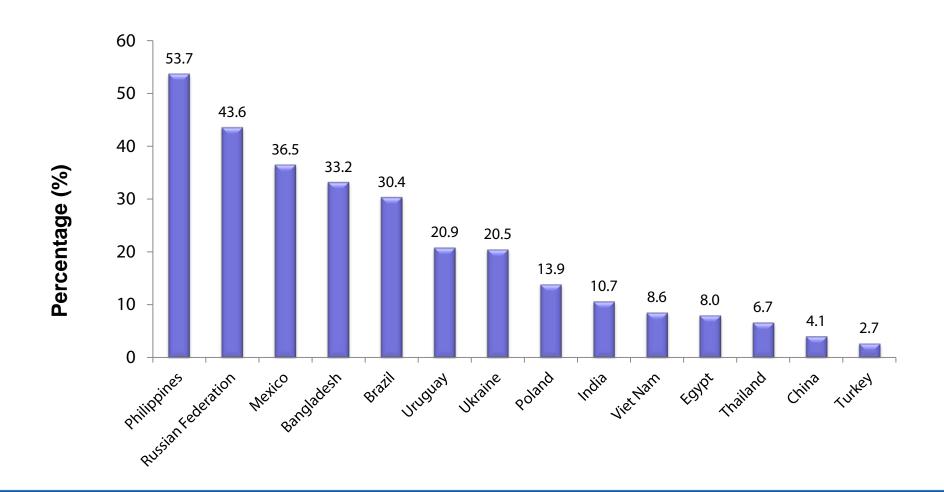
Warn

Thought about Quitting Smoking Because of Warning Labels on Cigarette Packages



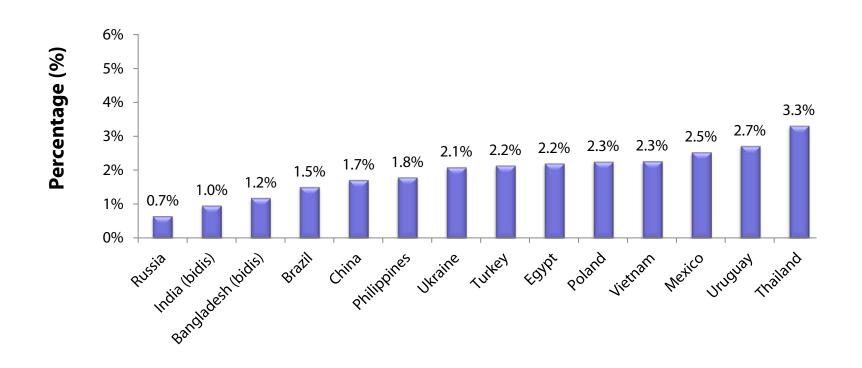


EnforceNoticed Cigarette Marketing in Stores





Raise Affordability





TQS: Tobacco Questions for Survey 2010–2012

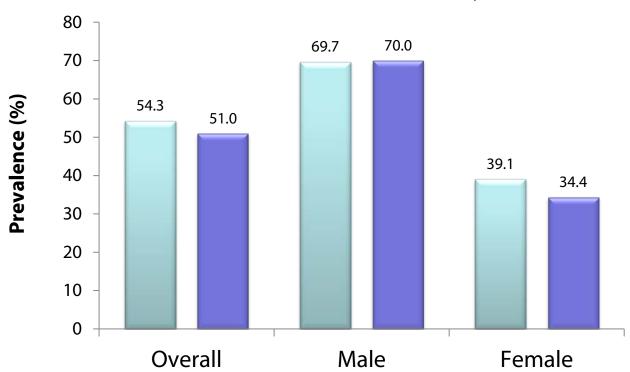
- ☐ 3 to 22 questions
- MPOWER focus
- Integration, standardization, and comparability





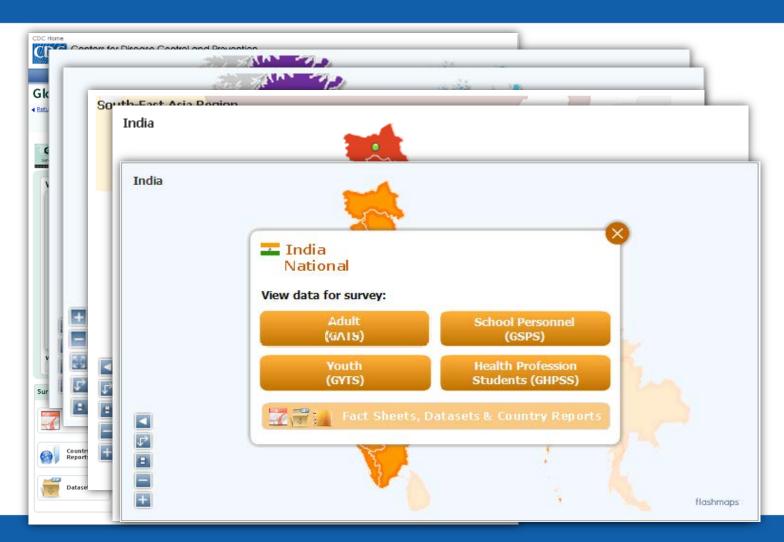
Current Tobacco Users Aged ≥25 Years, Bangladesh

- Global Adult Tobacco Survey, 2009
- NCD Risk Factor Survey, 2010





Data Dissemination



http://apps.nccd.cdc.gov/GTSSData/default/default.aspx



"What Gets Measured, Gets Done"

- ☐ Globally standardized survey data on tobacco control is available for 180 countries
 - Unprecedented cross-country comparisons
 - Tracking not only the problem, but also the solutions





International Advances in Tobacco Control



Michael Eriksen, ScD

Dean, Institute of Public Health
Georgia State University







There **ARE** Effective and Proven Strategies

100 million global deaths can be prevented by the end of the century through a group of policy and regulatory interventions

This number of lives saved is possible through a modest prevalence decline (from 25% to 20%), using the assumption that 1/3 of users will die from smoking related diseases



There ARE Evidence-Based Interventions

- Sustained funding of comprehensive programs
- Excise tax increases
- 100% smoke-free policies
- Comprehensive ad restrictions
- Aggressive media campaigns
- Cessation access







Monitor tobacco use and prevention policies

Protect people from tobacco smoke

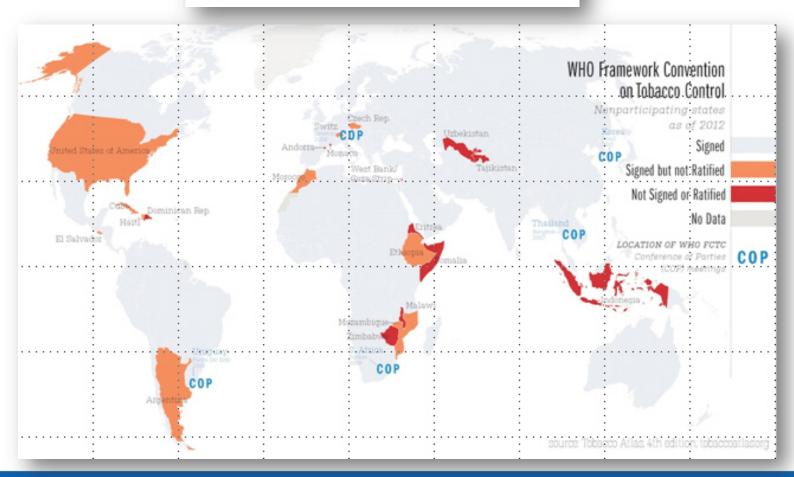
Offerhelp to quit tobacco use

Warn about the dangers of tobacco

Enforce bans on tobacco advertising, promotion and sponsorship

Raise taxes on tobacco





http://www.who.int/fctc/e

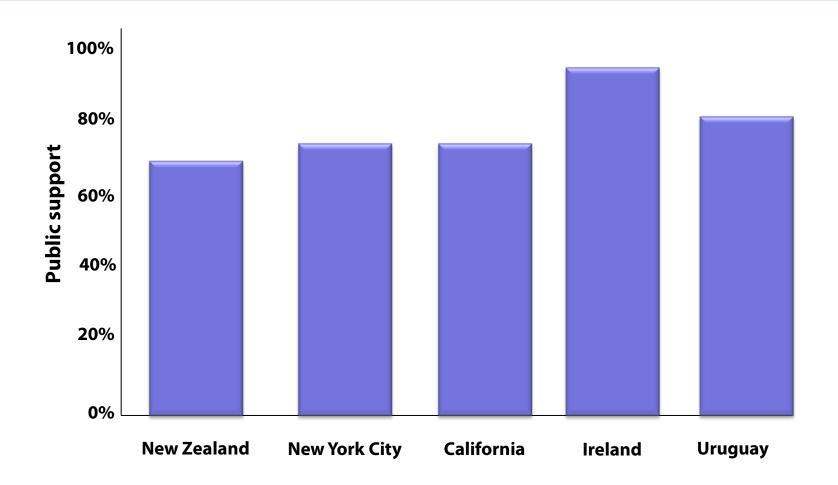


Smoke-Free Areas Doubled from 2008 to 2010





Public Support for Comprehensive Smoking Bans in Bars and Restaurants after Implementation





Impact of Pictorial Warnings on Brazilian Smokers





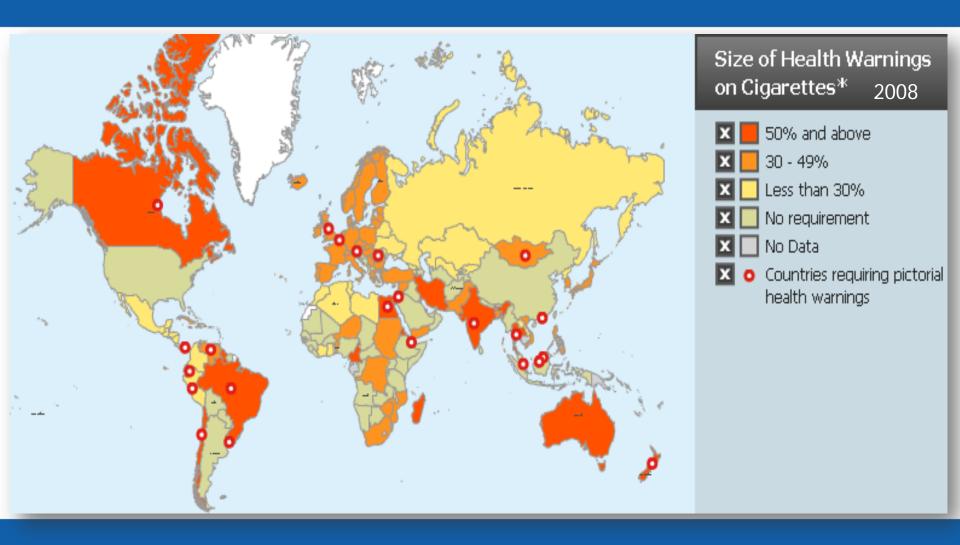
Plain Packaging in Australia



Plain packaging to be implemented by December 1, 2012, pending ongoing litigation



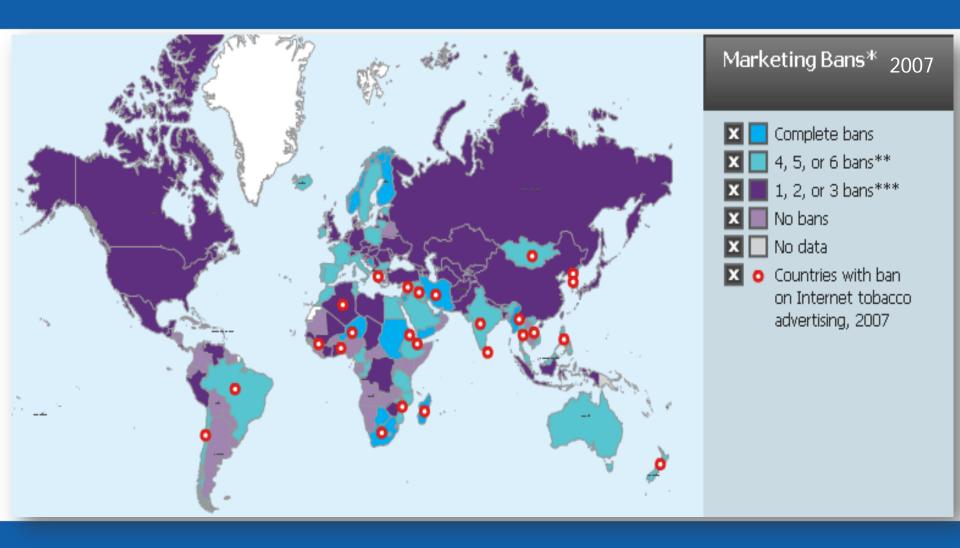
Health Warning Labels



^{*}Percent of principal display area of cigarette package legally mandated to be covered by health warning The Tobacco Atlas, 3rd Edition, 2008, www.tobaccoatlas.org



Marketing Bans



^{*} Direct and indirect advertising bans, 2007

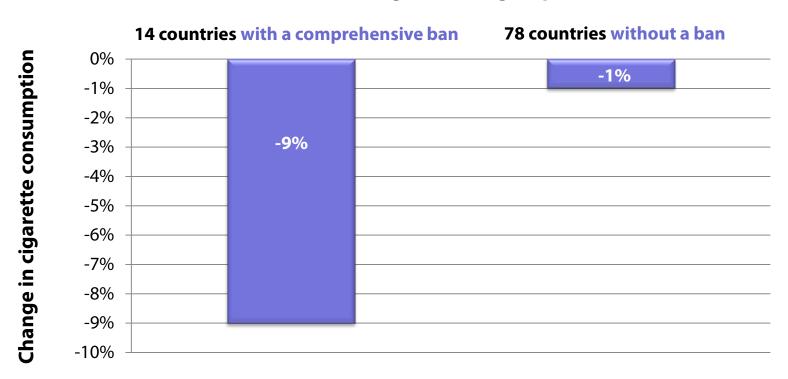
^{**} Four, five or six direct bans and at least one indirect ban

^{***}One, two or three direct bans or at least one indirect ban The Tobacco Atlas, 3rd Edition, 2008



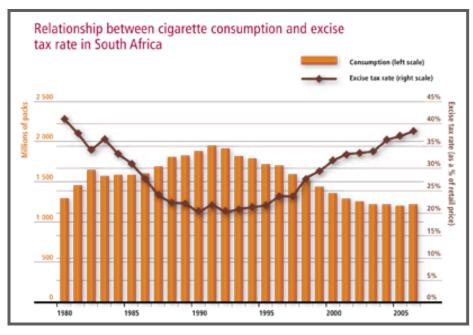
Comprehensive Advertising Bans Amplify Other Interventions

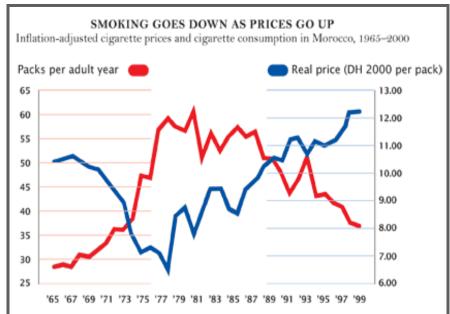
Average change in cigarette consumption 10 years after introduction of advertising bans in 2 groups of countries





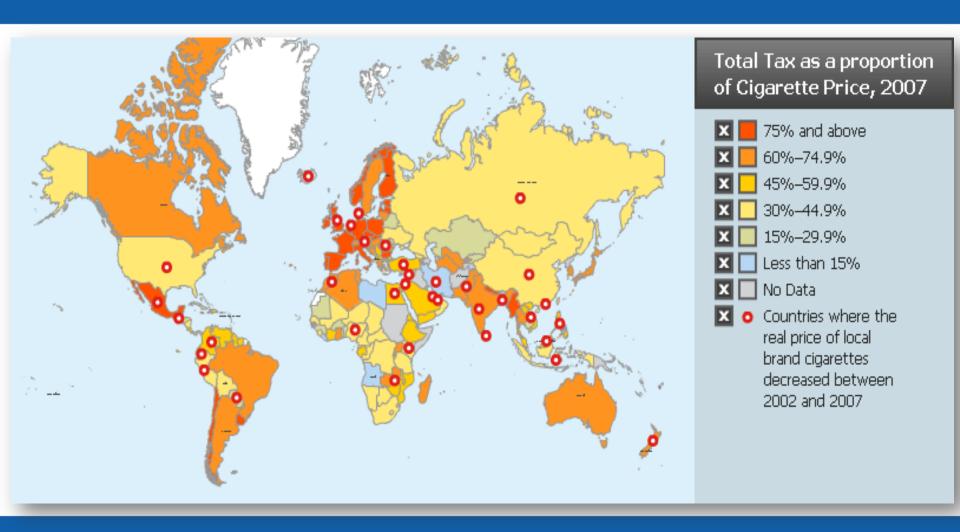
Tobacco Prices and Consumption South Africa and Morocco





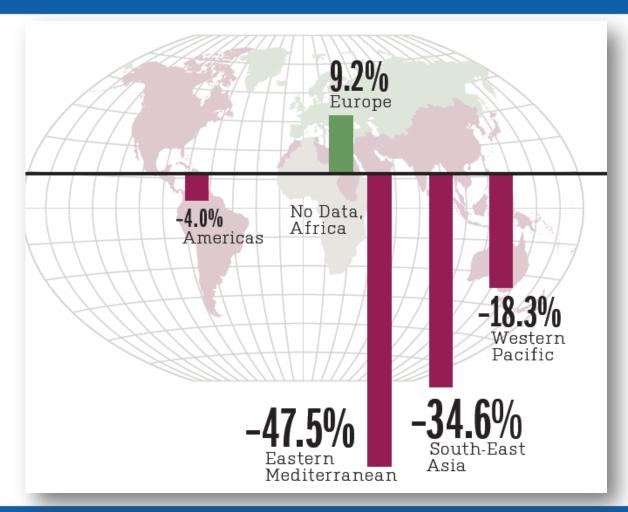


Tobacco Prices and Taxes



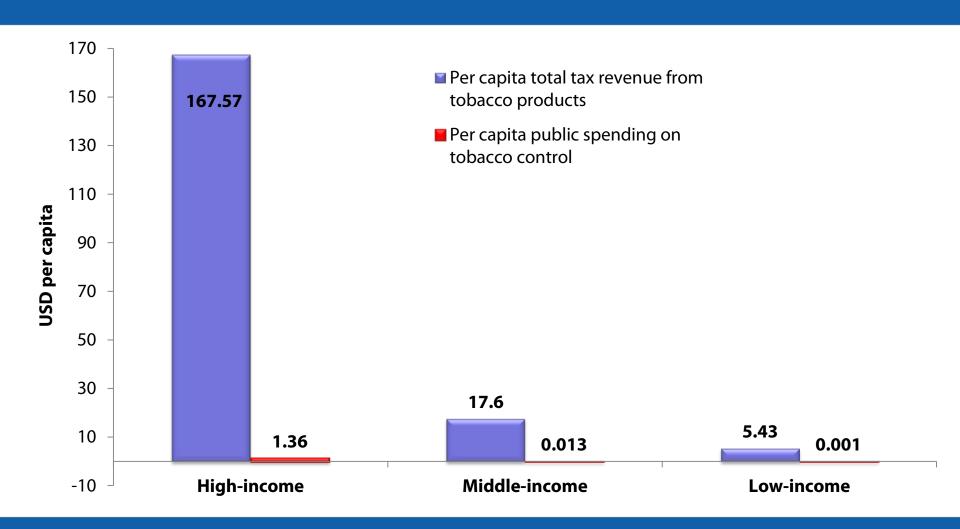


Change in Affordability of Tobacco Products by WHO Region, 2000–2010



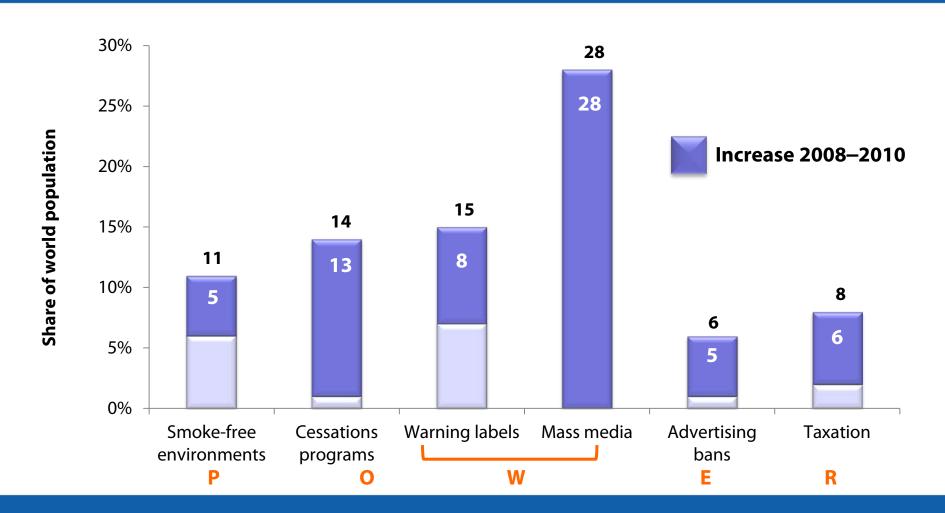


Tobacco Control is Underfunded

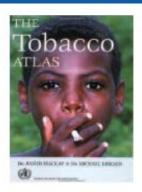




Most of the World's People Are Not Yet Fully Protected Against Tobacco Harms







2002 First Edition

WHO FCTC: 0



2006 Second Edition



2009 Third Edition

WHO FCTC: 109 WHO FCTC: 162 WHO FCTC: 174



2012 Fourth Edition

- Interactive maps, downloadable data, Power points, country fact sheets
- **Upcoming editions: Arabic, French, Spanish, Chinese**
- Sign up @TobaccoAtlas.org for alerts of upcoming editions, new features



Conclusions

- Internationally, tobacco control policy initiatives have been broadly accepted
- Evidence-based prevention best practices-the MPOWER package- have been codified
- Challenges to implementation include
 - Global underfunding of tobacco control
 - Regional, country-to-country, and within country variability in policies and enforcement
 - Ongoing industry marketing and influence

http://www.cdc.gov/about/grand-rounds

