

Priorities for Improved Survival: ICPD Beyond 2014

Promoting Healthy Lifestyles: What Works?

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Rachel A. Nugent, Ph.D. University of Washington



Health Promotion

"the process of enabling people to increase control over, and to improve, their health. It moves beyond a focus on individual behavior towards a wide range of social and environmental interventions."

WHO



Types of Health Promotion

- 1. Information, education, communication
- 2. Regulatory actions
- 3. Environmental/engineering/structural
- 4. Incentive-based policies

In the ...

...community, school, workplace, population



Domains and Sources of NCD Health Risk

- Tobacco: smoking, chewing
- Alcohol: binge drinking, low quality liquor
- Diet: salt, transfats, satfats, sugar, low F&V, low coarse grains and nuts, low diet diversity
- Physical Activity: less than 30 minutes per day of moderate activity at least 5 days per week

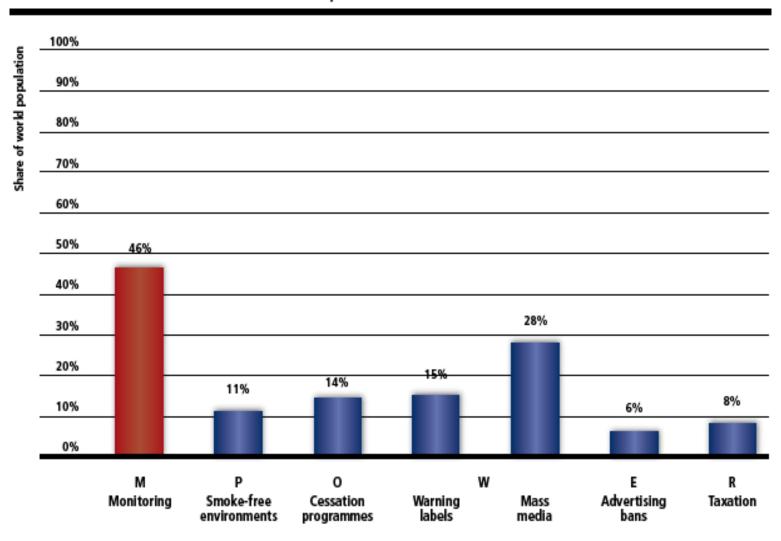


What's Effective for Tobacco?



- Taxes
- Subsidies for cessation
- Bans
- Marketing restrictions

SHARE OF THE WORLD POPULATION COVERED BY SELECTED TOBACCO CONTROL POLICIES, 2010



Note: The tobacco control policies depicted here correspond to the highest level of achievement at the national level; for the definitions of these highest categories refer to Technical Note I.



Plain packaging (Australia) and pictorial warning labels (Canada)





TOBACCO USE CAN MAKE YOU IMPOTENT

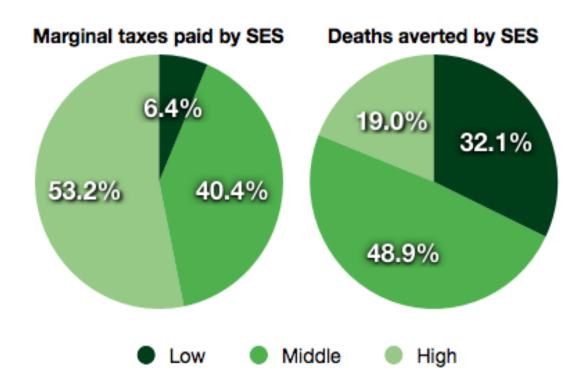
Cigarettes may cause sexual impotence due to decreased blood flow to the penis. This can prevent you from having an erection.

Health Canada



People's Republic of China

Distribution of marginal taxes and health benefits by SES group



Low SES group:

Pays 6.4% of increased taxes but receives 32.1% of

health benefits: hence, health/tax ratio: 5.02

% of income: Net gain for lowest 2 quintiles, net loss

for highest 3 quintiles

Source: ADB 2013, Verguet 2013

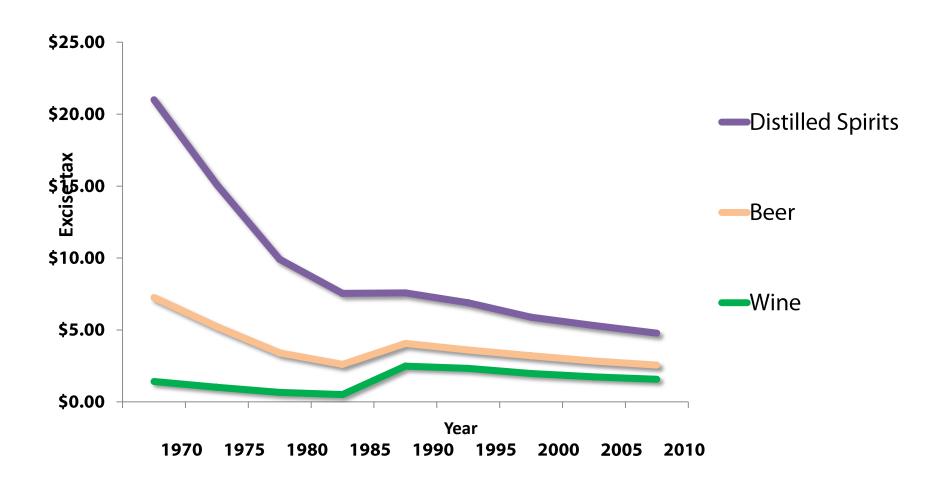


What's Effective for Alcohol?

- 1. Restrictions on use
- 2. Restrictions on driving and drinking
- Restrictions on advertising and sponsorships
- 4. Taxation



DCP3 Disease Control Priorities Federal Excise Tax Rates Per Control Priorities Federal Excise Tax Rates Per Control Gallon Absolute Alcohol, 1970–2010





What's Effective for Diet?



- Sustained, communitybased information coupled with labeling and regulation
- 2. Marketing regulations for children
- 3. School campaigns

Multicomponent diet and activity program including classes, teacher training, supportive policies, environmental changes, family components. (I A)† School garden programs (IIa A)†; fresh fruit & vegetable programs. (IIa A)† Comprehensive worksite wellness programs for diet, activity, tobacco. (IIa A)† Workplaces Increased availability of healthier options and/or strong nutrition standards,

Sustained, multi-mode campaigns focused on specific foods/drinks, either alone (IIa

Mandated nutrition facts, front-of-pack labels/icons, or menu labeling to influence

B) or as part of larger multi-component strategies. (IB) †‡§

industry behavior and product formulations. (IIa B) †

combined with on-site prompts, labels, or icons. (IIa B)†

Subsidy strategies to lower prices of more healthful foods/drinks. (I A) †

Long-term agricultural and related policy changes on infrastructure to facilitate

Tax strategies to increase prices of less healthful foods/drinks. (IIa B) †

production, transportation, marketing of healthier foods. (IIa B) †

Media and

Education

Labeling and

Information

Economic

Incentives

Restrictions on marketing of less healthy foods/drinks to youth on TV (I B)†, near schools and public places (IIa B)†, and on packages (IIa B)†. Direct bans (e.g., sodium, trans fat) or mandates (e.g., vegetable oils). (I B)†§

Mozaffarian et al, AHA Scientific Statement, Circulation 2012



Labeling

Schools

Workplaces

Information

What NOT to do (unless, perhaps, it's free)

Media and	 Shorter-term, community media/education efforts that target multiple CVD
Education	behaviors and risk factors simultaneously. (IIb B)

 Detailed nutrition facts panels, front of pack labels, or menu labelling as a means to influence consumer behavior. (III B)

Restricted accessibility (times, locations) to vending machines. (IIb B)
Promotion of water use alone. (IIb B)

School-based education alone, without other components. (IIb A)

Worksite cafeteria or vending machine labels or prompts alone. (IIb B)



What's Effective for PA?



- Community based and multi component
- 2. School-based
- Structural and environmental

DCP3 Disease Control Priorities

EFFECTIVE/PROMISING

CAMPAIGNS AND INFORMATIONAL

Community-wide Campaigns

- Involve many community sectors
- Include highly visible, broad-based, multicomponent strategies
- May also address other chronic disease risk factors, particularly diet and smoking

Examples:

- Wheeling Walks
- Agita Sao Paulo





Stanford Heart Disease Prevention Program

Credit: Tom Schmidt, CDC, 2013



OVERVIEW OF EFFECTIVE, PROMISING, AND

DCP3 Disease Control Priorities EMERGII	NG STRATEGIES TO PROMOTE	PHYSICAL
economic evaluation for health	ACTIVITY IN COMMUNITIES	
Approaches	Strategy	Classification
Campaigns and Informational	Point-of-decision Prompts	EFFECTIVE
	Community-wide Campaigns	EFFECTIVE/ PROMISING
	Mass media Campaigns	PROMISING

Behavioral and Social

Policy and Environmental

Community-wide Planning and Policies Source: Tom Schmidt, CDC, July 2013

Short Informational Messages

School-based Strategies

Social Support in Communities Provider-based Counseling Community PA Classes

PROMISING PROMISING Community-scale Urban Design

Street-scale Urban Design/Land use Transportation Policies and Practice

EFFECTIVE EFFECTIVE EMERGING EMERGING

EMERGING

EFFECTIVE

EFFECTIVE



What do we know about Cost-Effectiveness for PA?

- Very few CEA of PA interventions have been completed, fewer still using the most widely accepted methods (Cost / QALY)
- Cost / QALY of PA interventions are consistently in "CE" range
- Most studies have focused on high risk or older populations or work sites
- Indirect cost benefits of PA are generally greater than direct medical benefits, but are even less well studied



The Frontiers

- Built environment
- E-technology
- "Crowding-in" multiple sectors
- Private sector involvement and investment



Implications

economic evaluation for health

- Economic incentives are well supported, perhaps especially effective in developing countries, but they are under-utilized. However, need some enabling conditions (ex Vitality).
- Culture matters. Community-based campaigns work well in community-oriented societies without major barriers (crime, low accessibility).
- Importance of targeting: youth programs different from geriatric programs, etc.
- At the population level, even modest shifts in risk behaviors and risk factors substantially alter health outcomes and disease risk.



Conclusions

- Health promotion for NCD control is generally lowcost (regulation, taxation, IEC), except for structural change.
- However, often ineffective unless multi-component and sustained. Dx the problem: lack of information or behavioral choice?
- Need to better evaluate benefits and costs of largescale change.
- Need a coherent social agenda to change norms, supported by enabling physical environment, and alignment of policies across sectors.



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economic evaluation for health



economic evaluation for health

DCP3 Examples of Strategies with Less Evidence

	 Greater availability of supermarkets near homes. (IIa B)^{†‡}
_	 Greater availability of grocery stores near homes. (IIb B)
	 Reduced availability of convenience stores near homes. (IIb B)
Environment	 Reduced availability of fast food restaurants near homes (IIb B) or schools (IIb B).
	 Greater availability of local farmers' markets (IIb B) or community gardens. (IIb C)
	 Changes in agricultural subsidies alone to either encourage crops or reduce crops as a means to alter consumption. (IIb C)
Economic Incentives	 Sustained individual financial disincentives for adiposity or poor diets (e.g., higher insurance premiums) or other individual financial incentives to lose weight or improve diet. (IIb C)
	 Nonsustained individual financial disincentives or incentives related to obesity or diet. (IIb A)
Bans and Mandates	 Mandates to support production of healthier foods. (IIa C).



POLICY & ENVIRONMENTAL

APPROACHES

Community-scale Urban Design

- Urban design and land-use regulations, policies, and practices
- Walking and biking trails
- Exercise facilities

Examples: Bike and Pedestrian Corridors in Portland, Oregon, USA; Ciclovias in Bogotá, CO





LFFEUTIVE -

POLICY & ENVIRONMENTAL

<u>Approaches</u>

Street-scale Urban Design Strategies

- Pedestrian/bike friendly environments
- Improved access
- Aesthetics
- Safety

Examples:

- Sidewalks
- Continuity of pavement
- Lighting and traffic calming effects





School-based physical education programs in Latin America

- US Community Guide review process conducted on school programs in Brazil, Chile and the US/Mexico border.(GUIA)
- Consistent positive increases in PA levels for all outcomes (PE and transport to school) in 3 randomized trials
- Except for one cohort non-randomized studies showed positive intervention effects

Source: Ribeiro et al 2010, Glb Hth Prom



Academia da Cidade, (ACP) Recife, Brazil

- Community-level, professionally supervised and publicly available programs such as ACP are effective in increasing levels of leisuretime PA.
- Offering opportunities for transportation physical activity should be considered as a strategy to Increase PA among the poor

Source: Simoes et al, AJPH,2009