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Volume 5: Cardio-metabolic and Respiratory Diseases

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DCP3 Disease Control Priorities

economic evaluation for health

Scope and Status

- Vol. 5 covers the major NCDs except cancer
- Large editorial team not all fully engaged
- Currently 22 chapters but consolidating
- Lead authors have been confirmed for all but 4 chapters, co-authors for many
- Roughly half of outlines received
- Have had 3 partial authors meetings
- Chapter drafts expected fall 2013





Volume Overview

- 1. Global and regional burdens of morbidity and mortality
- 2. Risk factors for cardio-metabolic disease
- 3. Vascular and respiratory conditions
- 4. Policies and platforms to deliver services, including integrated services and health promotion
- 5. Economics of addressing cardio-metabolic and respiratory diseases

DCP3 Disease Control Priorities

economic evaluation for health

Links to other DCP3 volumes

- Common risk factors, eg with cancer (tobacco), child development (nutrition), mental health (alcohol), air quality
- Co-morbidities, eg TB/diabetes, mental health, HIV/AIDS
- Treatment overlaps, such as acute management of stroke, surgery (CHD)
- Cross-cutting issues: drug supply chains, quality of care, integrated service delivery



What's New?

Part 4: Policies and Platforms

- Integrated delivery for co-morbid diseases
- Innovations in health management
 - community management (patient-driven?)
 - e-health
 - CHWs

Part 5: Economics

- ECEAs for primary and secondary population prevention
- Multisectoral BCA?



Preliminary Messages

- Guidance on technology choices less important than guidance on access and quality improvement
- Address drug choices, adherence, supply chain
- Need combined management of risk factors
- Both over- and underweight are important
- Choose pharma intervention for primary or secondary depending on indication



ECEA example: South Africa salt reduction

- South Africa's proposed policy is complex: involving many food groups, coverage assumptions, and a mass media campaign
- Target consumption is **5g/day** for all ethnic groups
- Our preliminary intervention is "whatever policy is required" to reach 5g/day in each quintile
- The difference between current and target salt consumption levels was used to calculate reductions in blood pressure (He and MacGregor 2004)



CVD deaths averted

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	Q1	Q2	Q3	Q4	Q5	total
Stroke	28	47	51	50	42	218
Ischemic heart disease	17	30	32	31	26	136

354 CVD deaths averted per 1 million adult population over 40 years

→ Projected 4425 total deaths averted nationally in 1 year



Private expenditures averted (ZAR)

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	Q1	Q2	Q3	Q4	Q5	total
Stroke	4533	39339	12031	41587	633169	730659
Ischemic heart disease	1599	2160	10497	35617	505687	555560

ZAR 1.3 million (~USD 160,000) total; ZAR 1.1 million in Q5

Why so much financial protection for the wealthiest?



Tobacco Taxation

- Tobacco taxation can reduce smoking and increase government revenue.
- Effects may vary across income quintiles.
- Concerns that a tax will disproportionately harm the poor.
- Need to understand how a policy will impact different groups to make appropriate policy recommendations.





Conclusions

- Tobacco taxation reduces smoking-related mortality across all income groups with the bulk of those health gains being concentrated in the two lowest income quintiles.
- We also find that individuals reduce their expenditures on both tobacco- and medical treatment related to tobacco consumption.
- Tobacco taxation in India produces health gains for all income quintiles and reduces total tobacco-related expenditures in all but the richest quintile.