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Implementation of national action plans on noncommunicable diseases, Bhutan, Cambodia, Indonesia, Philippines, Sri Lanka, Thailand and Viet Nam

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Abstract By 2016, Member States of the World Health Organization (WHO) had developed and implemented national action plans on noncommunicable diseases in line with the Global action plan for the prevention and control of noncommunicable diseases (2013–2020). In 2018, we assessed the implementation status of the recommended best-buy noncommunicable diseases interventions in seven Asian countries: Bhutan, Cambodia, Indonesia, Philippines, Sri Lanka, Thailand and Viet Nam. We gathered data from a range of published reports and directly from health ministries. We included interventions that addressed the use of tobacco and alcohol, inadequate physical activity and high salt intake, as well as health-systems responses, and we identified gaps and proposed solutions. In 2018, progress was uneven across countries. Implementation gaps were largely due to inadequate funding; limited institutional capacity (despite designated noncommunicable diseases units); inadequate action across different sectors within and outside the health system; and a lack of standardized monitoring and evaluation mechanisms to inform policies. To address implementation gaps, governments need to invest more in effective interventions such as the WHO-recommended best-buy interventions, improve action across different sectors, and enhance capacity in monitoring and evaluation and in research. Learning from the Framework Convention on Tobacco Control, the WHO and international partners should develop a standardized, comprehensive monitoring tool on alcohol, salt and unhealthy food consumption, physical activity and health-systems response.

Introduction

Noncommunicable diseases, such as cardiovascular diseases, cancers, chronic respiratory diseases and diabetes, claim a high proportion of overall mortality, pushing many people into poverty due to catastrophic spending on medical care. 1 Yet noncommunicable diseases are mostly preventable. The United Nations (UN) General Assembly has adopted a series of resolutions 2 which reflect the high-level commitment to prevention and control of noncommunicable diseases. In 2013, Member States of the World Health Organization (WHO) resolved to develop and implement national action plans, in line with the policy options proposed in the Global action plan for the prevention and control of noncommunicable diseases (2013–2020). 3 Noncommunicable diseases are also embedded in sustainable development goal (SDG) target 3.4, that is, to reduce by one-third the premature mortality from noncommunicable diseases by 2030, and are linked to other SDGs, notably SDG 1 to end poverty. 4 In 2017, the WHO Global Conference on Noncommunicable Diseases 5 reaffirmed noncommunicable diseases as a sustainable development priority in the Montevideo roadmap 2018–2030. 6

The WHO estimates an economic return of $7 United States dollars (US$) per person for every dollar spent on so-called best buys – evidence-based, highly cost–effective policy interventions which tackle noncommunicable diseases. 7 There could also be a reduction of 8.1 million premature deaths by 2030 if these best-buy options were fully implemented, which represents 15% of the total premature deaths due to noncommunicable diseases. 7 Despite the rising burden of these diseases in low- and middle-income countries, only an estimated 1% of health funding in these countries is dedicated to prevention and clinical management. 7 This level of spending is unlikely to have a significant impact. Country-level gaps in legislative, regulatory, technical and financial capacities impede the translation of global com-

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mitments into national action. Most low- and middle-income countries have weak health systems, with limited domestic and international funding for prevention and health promotion interventions. Between 2000 and 2015, only 1.3% (US$ 5.2 billion) of total global development assistance for health was contributed to noncommunicable disease programmes. The problems are compounded by a lack of coordinated action across the relevant sectors within and outside governments. WHO has recommended that innovative sources of domestic financing be explored. Yet in most low- and middle-income countries, inadequate government funding and high out-of-pocket payments often prevent poorer people from accessing treatment for noncommunicable diseases.

We assessed the implementation status of best-buy interventions in seven Asian countries, which have participated in collaborative studies of noncommunicable diseases: Bhutan, Cambodia, Indonesia, Philippines, Sri Lanka, Thailand and Viet Nam. We also assessed gaps in institutional capacity and provided suggestions for improving policy implementation. All countries in this analysis are currently classified by the World Bank as lower-middle income, except Thailand, which is classified as upper-middle income. Population size ranges from under 1 million in Bhutan to more than 250 million in Indonesia. There are large variations in the prevalence of risk factors for noncommunicable disease, its associated burden and measures to tackle them across these seven countries (Table 1).

Although these seven countries have a similar pace of socioeconomic development, they are diverse in terms of population size, health-system structure and decentralization of governance (Table 1).

Table 1. Profile of seven Asian countries included in the analysis of best-buy interventions for the prevention and control of noncommunicable diseases in July 2018

<table>
<thead>
<tr>
<th>Variable</th>
<th>Bhutan</th>
<th>Cambodia</th>
<th>Indonesia</th>
<th>Philippines</th>
<th>Sri Lanka</th>
<th>Thailand</th>
<th>Viet Nam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total population, millions in 2017</td>
<td>0.8</td>
<td>16</td>
<td>258</td>
<td>102</td>
<td>21</td>
<td>69</td>
<td>94 (2016)</td>
</tr>
<tr>
<td><strong>Economic and fiscal measures</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GDP per capita in 2017, current US$</td>
<td>3110</td>
<td>1384</td>
<td>3847</td>
<td>2989</td>
<td>4065</td>
<td>6594</td>
<td>2343</td>
</tr>
<tr>
<td>Government revenue, excluding grants in 2016, % of GDP</td>
<td>18.9</td>
<td>17.4</td>
<td>12.5</td>
<td>15.2</td>
<td>14.2</td>
<td>20.0</td>
<td>21.5 (2013)</td>
</tr>
<tr>
<td><strong>Health expenditure</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current health expenditure per capita in 2015, current US$</td>
<td>91</td>
<td>70</td>
<td>112</td>
<td>127</td>
<td>118</td>
<td>217</td>
<td>217</td>
</tr>
<tr>
<td><strong>Physical activity indicators</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prevalence of physical activity by adults age 18+ years in 2013, %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both sexes</td>
<td>91</td>
<td>NA</td>
<td>76</td>
<td>NA</td>
<td>76</td>
<td>70</td>
<td>76</td>
</tr>
<tr>
<td>Males</td>
<td>94</td>
<td>NA</td>
<td>75</td>
<td>NA</td>
<td>83</td>
<td>68</td>
<td>78</td>
</tr>
<tr>
<td>Females</td>
<td>88</td>
<td>NA</td>
<td>78</td>
<td>NA</td>
<td>70</td>
<td>72</td>
<td>74</td>
</tr>
<tr>
<td>Estimated deaths related to physical inactivity in 2013, %</td>
<td>14.0</td>
<td>NA</td>
<td>8.0</td>
<td>NA</td>
<td>6.9</td>
<td>5.1</td>
<td>4.1</td>
</tr>
<tr>
<td><strong>Alcohol indicators</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total alcohol consumption per capita by alcohol drinkers older than 15 years in 2010, litres of pure alcohol</td>
<td>6.9</td>
<td>14.2</td>
<td>7.1</td>
<td>12.3</td>
<td>20.1</td>
<td>23.8</td>
<td>17.2</td>
</tr>
<tr>
<td>National legal minimum age for on-premise sales of alcoholic beverages, years</td>
<td>18</td>
<td>None</td>
<td>None</td>
<td>18</td>
<td>21</td>
<td>20</td>
<td>18</td>
</tr>
<tr>
<td>National maximum legal blood alcohol concentration, %</td>
<td>0.08</td>
<td>0.05</td>
<td>Zero</td>
<td>0.05</td>
<td>0.08</td>
<td>0.05</td>
<td>Zero</td>
</tr>
<tr>
<td><strong>Tobacco indicators</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prevalence of tobacco use among young people aged 13–15 years in 2016, %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both sexes</td>
<td>30.2</td>
<td>2.4</td>
<td>12.7</td>
<td>12.0</td>
<td>3.7</td>
<td>15.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Males</td>
<td>39.0</td>
<td>2.9</td>
<td>23.0</td>
<td>17.6</td>
<td>6.7</td>
<td>21.8</td>
<td>6.9</td>
</tr>
<tr>
<td>Females</td>
<td>23.2</td>
<td>1.9</td>
<td>2.4</td>
<td>7.0</td>
<td>0.7</td>
<td>8.1</td>
<td>1.3</td>
</tr>
<tr>
<td>Prevalence of tobacco smoking among individuals older than 15 years in 2016, %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both sexes</td>
<td>7.4</td>
<td>21.8</td>
<td>NA</td>
<td>22.7</td>
<td>15.0</td>
<td>20.7</td>
<td>22.5</td>
</tr>
<tr>
<td>Males</td>
<td>10.8</td>
<td>33.6</td>
<td>64.9</td>
<td>40.3</td>
<td>29.4</td>
<td>40.5</td>
<td>45.3</td>
</tr>
<tr>
<td>Females</td>
<td>3.1</td>
<td>11.0</td>
<td>2.1</td>
<td>5.1</td>
<td>0.1</td>
<td>2.2</td>
<td>1.1</td>
</tr>
<tr>
<td>Total tobacco taxes, % of retail price</td>
<td>Tobacco banned</td>
<td>25.2</td>
<td>57.4</td>
<td>62.6</td>
<td>62.1</td>
<td>73.5</td>
<td>35.7</td>
</tr>
</tbody>
</table>

ments in Indonesia and the Philippines, and partially devolved in Sri Lanka). Lessons from their experiences can be shared with other countries striving to implement their national action plans on noncommunicable diseases.

Approach

We based our analysis on the policy options in the six objectives in the global action plan on noncommunicable diseases. These objectives form the guiding framework for WHO Member States to develop their national action plans (Fig. 1). National research capacities (objective 5) and monitoring and evaluation (objective 6) provide evidence which supports the application of best-buy interventions (objective 3) and monitors progress towards achieving targets. Health-systems strengthening (objective 4) supports the implementation of the action plan. All four objectives (3, 4, 5 and 6) should be enhanced by good governance (objective 2) and a heightened noncommunicable diseases priority that sustains the agenda across successive governments (objective 1).

Given the six objectives act in synergy to contribute to noncommunicable diseases prevention and control, we did not attempt to address all of them, but to focus on implementation of the best buys for four major noncommunicable diseases risk factors (tobacco, alcohol, unhealthy diet and physical activity) and for health-systems response.

In the first half of 2018, we gathered information from country profiles in a range of sources from the published literature: (i) the WHO report on the global tobacco epidemic 2017 which was compiled by the Framework Convention on Tobacco Control (FCTC) secretariat; (ii) the WHO Global status report on alcohol and health 2018; (iii) the WHO Global status report on noncommunicable diseases 2010; (iv) the Noncommunicable diseases progress monitor 2017; (v) national capacity survey data on physical activity, salt policy and health-systems response to developing treatment guidelines from the WHO Global Health Observatory data repository; and (vi) the Noncommunicable diseases country profiles 2018 report on availability of essential medicines for noncommunicable diseases. Additional published literature was retrieved from a search of PubMed® and Scopus online databases. We used personal contacts with the health ministries in each respective country to obtain further information on the institutional capacity to address noncommunicable diseases.

Implementation of best buys

Table 2 provides a summary of the implementation status of best-buy interventions across the seven countries.

Tobacco control

All six countries that are State Parties to the WHO FCTC, and also Indonesia, which is not a State Party to the Convention, have implemented tobacco control interventions. There are five indicators to monitor progress as mandated by the Convention.

First, countries are required to increase excise taxes and prices on tobacco products to achieve the total tax rate between 51% and 75% of retail price of the most sold brand of cigarettes. By 2016, no country in our analysis had achieved the target of 75%. Thailand had the highest tax rate of 73.5%, while Cambodia had the lowest rate of 25.2%. Cigarettes were more affordable (defined according to the cost of cigarettes relative to per capita income) in 2016 than in 2008 in two countries, Indonesia and Viet Nam, but less affordable in 2016 than in 2008 in the Philippines.

Second, countries are required to eliminate exposure to second-hand tobacco smoke in all indoor workplaces, public places and transport. Bhutan (which has a total ban on tobacco) had the highest compliance rate (score: 10 out of a maximum 10), followed by Thailand (score: 7/10), while Indonesia (score: 1/10) had yet to scale-up compliance to protect the health of non-smokers.

Third, countries are required to introduce plain or standardized packaging or large graphic health warnings on all tobacco packages. Thailand and Sri Lanka were the two best-performing countries, as text and pictorial health warnings covered 85% and 80% of the front and back areas of cigarettes package, respectively. Health warnings covered only 40% of package areas in Indonesia.

Fourth, countries are required to enact and enforce comprehensive bans on tobacco advertising, promotion and sponsorship. Bhutan had the highest level of compliance with a score of 10 out of 10 each for direct and indirect bans, followed by Viet Nam with a compliance score of 10/10 for a direct ban and 6/10 for an indirect ban. Indonesia had the lowest score (1/10) on eliminating exposure to second-hand tobacco smoke; the
### Table 2. Implementation status of best-buy interventions for the prevention and control of noncommunicable diseases in seven Asian countries in July 2018

<table>
<thead>
<tr>
<th>Best-buy intervention</th>
<th>Indicator description</th>
<th>Bhutan</th>
<th>Cambodia</th>
<th>Indonesia</th>
<th>Philippines</th>
<th>Sri Lanka</th>
<th>Thailand</th>
<th>Viet Nam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tobacco demand-reduction measures</strong>&lt;sup&gt;10&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Increase excise taxes and prices on tobacco products</td>
<td>Total taxes as % of the price of the most sold brand of cigarettes was maximum 75% and above, minimum 51%&lt;sup&gt;16&lt;/sup&gt;</td>
<td>Not applicable, as sale of tobacco banned in Bhutan</td>
<td>Total tax: 25.2% of retail price in 2016. Retail cigarette price affordable. No changes between 2008 and 2016</td>
<td>Total tax: 57.4% of retail price in 2016. Retail cigarette price affordable. Cigarettes more affordable in 2016 than 2008</td>
<td>Total tax: 62.6% of retail cigarette price in 2016. Cigarettes more affordable in 2016 than 2008</td>
<td>Total tax: 62.1% of retail cigarette price in 2016. Tobacco price affordable. No changes between 2008 and 2016</td>
<td>Total tax: 73.5% of retail cigarette price in 2016. Retail cigarette price affordable. No changes between 2008 and 2016</td>
<td>Total tax: 35.7% of retail cigarette price in 2016. Cigarettes more affordable in 2016 than in 2008</td>
</tr>
<tr>
<td>3. Implement plain or standardized packaging and/or large graphic health warnings on all tobacco packages</td>
<td>Mandates plain or standardized packaging and/or large graphic warnings with all appropriate characteristics</td>
<td>Not applicable</td>
<td>Mandates pictorial and text health warnings on packaging of cigarettes, other smoked tobacco and smokeless tobacco, covering 55% of front and back areas: Two specific health warnings approved</td>
<td>Mandates pictorial and text health warnings on packaging of cigarettes, other smoked tobacco and smokeless tobacco, covering 40% of front and back areas: Five specific health warnings approved</td>
<td>Mandates pictorial and text health warnings on packaging of cigarettes, other smoked tobacco and smokeless tobacco, covering 50% of front and back areas: Twelve specific health warnings approved</td>
<td>Mandates text and pictorial health warnings on packaging of cigarettes and other smoke tobacco, covering 85% of front and back areas. Ban on smokeless tobacco. Ten specific health warnings approved</td>
<td>Mandates text and pictorial health warnings on packaging of cigarettes and other smoke tobacco, covering 85% of front and back areas. Ban on smokeless tobacco. Ten specific health warnings approved</td>
<td>Mandates text and pictorial health warnings on packaging of cigarettes and other smoke tobacco, covering 85% of front and back areas. Ten specific health warnings approved</td>
</tr>
<tr>
<td>4. Enact and enforce comprehensive bans on tobacco advertising, promotion and sponsorship</td>
<td>Compliance score as per WHO report.&lt;sup&gt;18&lt;/sup&gt; High compliance: 8–10; moderate compliance: 3–7; minimal compliance: 0–2</td>
<td>Compliance score: 8/10. No ban on indirect promotions except sponsorship ban: 10/10</td>
<td>Compliance score: 10/10. No ban on indirect promotions except appearance of tobacco brands on television or films (product placement) score: 9/10; indirect promotions ban: 10/10</td>
<td>No ban on direct advertising ban: 8/10. No ban on indirect promotions except appearance of tobacco brands on television or films (product placement) score: 9/10; indirect promotions ban: 6/10</td>
<td>Compliance score: 6/10. No ban on direct advertising ban: 8/10; promotions ban: 5–10; indirect promotions ban: 6/10</td>
<td>Compliance score: 5/10 in 2016. No yet introduced smoke-free regulation in indoor offices, restaurants, cafés, pubs and bars</td>
<td>Compliance score: 5/10 in 2016. No yet introduced smoke-free regulation in indoor offices, restaurants, cafés, pubs and bars</td>
<td>Compliance score: 6/10. No ban on direct advertising ban: 8/10; promotions ban: 5–10; indirect promotions ban: 6/10</td>
</tr>
</tbody>
</table>

(continues...)

<sup>10</sup> [Bull World Health Organ. 2018;96:129–141](http://dx.doi.org/10.2471/BLT.18.204683)
<table>
<thead>
<tr>
<th>Best-buy intervention</th>
<th>Indicator description</th>
<th>Bhutan</th>
<th>Cambodia</th>
<th>Indonesia</th>
<th>Philippines</th>
<th>Sri Lanka</th>
<th>Thailand</th>
<th>Viet Nam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Harmful use of alcohol reduction measures</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>1. Enact and enforce restrictions on the physical availability of retailed alcohol</td>
<td>No defined legal age</td>
<td>18 years</td>
<td>21 years</td>
<td>18 years</td>
<td>21 years</td>
<td>20 years</td>
<td>18 years</td>
</tr>
<tr>
<td>(via reduced hours of sale)</td>
<td>via reduced hours of sale)</td>
<td>No defined legal age</td>
<td>18 years</td>
<td>21 years</td>
<td>18 years</td>
<td>21 years</td>
<td>20 years</td>
<td>18 years</td>
</tr>
<tr>
<td></td>
<td>National legal minimum age for on- and off-premise sales of alcoholic beverages</td>
<td>No restrictions</td>
<td>Restrictions for all categories except density</td>
<td>No restrictions</td>
<td>Restrictions only for hours and places</td>
<td>Restrictions only for hours, places, density and specific events</td>
<td>Restrictions for all categories except density and specific events</td>
<td>Restrictions only by place, density and for intoxicated persons</td>
</tr>
<tr>
<td></td>
<td>Restrictions for on- and off-premise sales of alcoholic beverages by hours, days, places</td>
<td>Restrictions for all categories except density</td>
<td>No restrictions</td>
<td>Restrictions only for hours and places</td>
<td>Restrictions only for hours, places, density and specific events</td>
<td>Restrictions for all categories except density and specific events</td>
<td>Restrictions for all categories except density and specific events</td>
<td>Restrictions only by place, density and for intoxicated persons</td>
</tr>
<tr>
<td></td>
<td>sale, density of outlets, for specific events, to intoxicated persons, at petrol</td>
<td>No restrictions</td>
<td>Restrictions for all categories except density</td>
<td>No restrictions</td>
<td>Restrictions only for hours and places</td>
<td>Restrictions only for hours, places, density and specific events</td>
<td>Restrictions for all categories except density and specific events</td>
<td>Restrictions only by place, density and for intoxicated persons</td>
</tr>
<tr>
<td></td>
<td>stations&lt;sup&gt;1&lt;/sup&gt;</td>
<td>No restrictions</td>
<td>Restrictions for all categories except density</td>
<td>No restrictions</td>
<td>Restrictions only for hours and places</td>
<td>Restrictions only for hours, places, density and specific events</td>
<td>Restrictions for all categories except density and specific events</td>
<td>Restrictions only by place, density and for intoxicated persons</td>
</tr>
<tr>
<td>2. Enact and enforce bans or comprehensive restrictions on exposure to alcohol advertising (across multiple types of media)</td>
<td>Legally binding regulations on alcohol advertising, product placement, sponsorship, sales promotion, health warning labels on advertisements and containers</td>
<td>Yes, except advertising on containers</td>
<td>Regulations only on alcohol sponsorship</td>
<td>Yes, except advertising on containers</td>
<td>Regulations only for health warning labels on alcohol advertisements and containers</td>
<td>Yes, except advertising on containers</td>
<td>Yes, except advertising on containers</td>
<td>Yes, except advertising on containers</td>
</tr>
<tr>
<td>3. Increase excise taxes on alcoholic beverages</td>
<td>Excise tax on beer, wine and spirits</td>
<td>Yes, except for spirits</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Unhealthy diet reduction measures</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Adopted national salt policies</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>1. Adopt national policies to reduce population salt/sodium consumption</td>
<td>Applies voluntary or mandatory salt cut-offs on selected foods</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>2. Enact and enforce regulations on salt content and control</td>
<td>Yes, except for household applications</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3. Increase excise taxes on salt and sodium</td>
<td>Yes, except for households</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

(continues...)
### Best-buy intervention

<table>
<thead>
<tr>
<th>Indicator description</th>
<th>Bhutan</th>
<th>Cambodia</th>
<th>Indonesia</th>
<th>Philippines</th>
<th>Sri Lanka</th>
<th>Thailand</th>
<th>Viet Nam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical activity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Implement communitywide public education and awareness campaign for physical activity, which includes a mass media campaign</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country has implemented, within past 5 years, at least one recent national public awareness programme on physical activity</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Health systems</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Member State has national management guidelines for four major noncommunicable diseases through a primary care approach</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Availability of national guidelines for the management of cardiovascular diseases, diabetes, cancer and chronic respiratory diseases</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>2. Drug therapy for diabetes mellitus and hypertension using total risk approach, and counselling to individuals who have had a heart attack or stroke and to persons with high risk (≥ 30%, or ≥ 20%) of a fatal and non-fatal cardiovascular event in the next 10 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proportion of primary health-care facilities offering cardiovascular risk stratification for the management of patients at high risk for heart attack and stroke</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Availability of selected noncommunicable diseases medicines at 50% or more of primary-health care facilities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 25%</td>
<td>Less than 25%</td>
<td>Less than 25%</td>
<td>More than 50%</td>
<td>More than 50%</td>
<td>More than 50%</td>
<td>Less than 25%</td>
<td></td>
</tr>
<tr>
<td>4/12 drugs</td>
<td>3/12 drugs</td>
<td>11/12 drugs</td>
<td>4/12 drugs</td>
<td>11/12 drugs</td>
<td>9/12 drugs</td>
<td>2/12 drugs</td>
<td></td>
</tr>
</tbody>
</table>

WHO: World Health Organization.

Note: Affordability of cigarettes is defined by the percentage of per capita gross domestic product required to purchase 2000 cigarettes of the most sold brand.

(continued)
country had no bans on direct advertising or sponsorship; and low compliance (score 3/10) on banning free tobacco distribution.

Fifth, countries are required to implement effective mass-media campaigns to educate the public about the harms of smoking and second-hand smoke. All countries except Bhutan and Sri Lanka had comprehensive campaigns in the media in 2014 and 2016.

Alcohol control

There are three indicators in the *Global status report on alcohol and health 2018*, that were used to monitor progress on reduction of harmful use of alcohol.¹⁹

First, countries need to enact and enforce restrictions on the physical availability of retail alcohol. The legal minimum age for on- and off-premise sales of alcoholic beverages in 2018 was the highest in Indonesia and Sri Lanka (21 years), followed by Bhutan, Philippines and Viet Nam (18 years), while Cambodia did not have a defined legal age. All countries in this study except Cambodia had introduced restrictions on the on- and off-premise sales of alcoholic beverages by timing or place, although these was not yet comprehensive.¹⁹

Second, countries need to enact and enforce bans or comprehensive restrictions on exposure to alcohol advertising in all types of media, product placement, sponsorship and sales promotion, and implement health warning labels on alcohol advertisements and containers. We found that almost all countries had introduced regulations on advertising for all categories of media except on alcohol drinks containers.

Third, countries need to increase excise taxes on alcoholic beverages including beer, wine and spirits. The *Global status report on alcohol and health 2018*²⁰ does not provide detailed information, such as tax rates, trends of tax rates and changes of affordability of alcoholic beverages. However, most countries had imposed excise taxes for all alcoholic beverages, except on spirits in Bhutan. The available information would not be helpful for monitoring progress on changes of affordability and specific policy interventions.

Unhealthy diet

The availability of a salt policy is currently the only indicator used by WHO to monitor progress on unhealthy diet.²¹ Salt policies cover four best buys interventions; (i) reformulating and setting target of salt in foods, (ii) promoting an enabling environment for lower sodium options, (iii) promoting behaviour change through media campaign, (iv) implementing front-of-pack labelling. Thailand had introduced a salt and sodium reduction policy for 2016–2025, focusing on labelling, legislation and product reformulation.²⁴ In 2016, Thailand adopted national policies to reduce population salt and sodium consumption, in the form of a voluntary salt reduction in processed food and snacks. Manufacturers who comply with the salt reduction recommendation (including those on fat and sugar) receive a healthier choice logo by the food and drug administration of the health ministry. A regulation was introduced in 2016 in Thailand, for mandatory package labelling (of salt, fat, sugar, energy and other contents) through the guideline daily amount. Bhutan and Sri Lanka have drafted salt reduction strategies, although an explicit policy on salt reduction was not yet available. Average daily salt intake was 10.8 g (in 2010) and 8.0 g (in 2012) in Thailand and Sri Lanka, respectively,²⁶ which is more than the 5 g recommended by the WHO.²² Population behaviour change actions, such as creating awareness on high salt intake and empowering people to change their behaviours, had been introduced in Bhutan and Sri Lanka.

Physical activity

Implementing public education and awareness campaigns is the indicator for monitoring progress of promoting physical activity.²¹ By 2016, Cambodia and Viet Nam had not implemented any programme activities that support behavioural change in the previous 5 years. The *Global action plan on physical activity (2018–2030)*, adopted by World Health Assembly resolution WHA71.6²⁸ in May 2018, urged the WHO Member States to implement the promotion of physical activity and requested the WHO to develop global monitoring and reporting systems.

Health-systems response

Two indicators are proposed for monitoring health-systems response to non-communicable diseases: availability of treatment guidelines and availability of essential medicines at primary level facilities.²¹ Access to essential medicines supports reduction of premature mortality in SDG target 3.4.

By 2016, all seven countries had developed evidence-based national guidelines for the management of four major conditions through a primary health-care approach, although there was no detail on the scope and contents of guidelines. Three countries, Philippines, Sri Lanka and Thailand, reported that more than 50% of their primary health-care facilities offered cardiovascular risk management of patients at risk of heart attack and stroke. The remaining four countries reported fewer than 25% of their primary care facilities offered these services.

Indonesia and Sri Lanka reported that 11 out of 12 priority noncommunicable diseases medicines were available in more than 50% of their primary care facilities. Viet Nam and Cambodia needed to scale-up availability of these medicines, as only 2/12 and 3/12 medicines for noncommunicable diseases were available, respectively.

In addition to the cross-country analysis in Table 2, Box 1 provides a synthesis of intra-country analysis of their noncommunicable diseases interventions, achievements and gaps.

Institutional capacity

Translating the UN General Assembly resolutions into interventions with good outcomes requires institutional capacity to deliver these political promises. We obtained information directly from health ministries on their institutional capacities for noncommunicable diseases (Table 3).

All seven countries had designated a unit or equivalent body in their health ministry with responsibility for noncommunicable diseases. The number of full-time equivalent professional staff in the unit ranged from four in Bhutan to 41 in Sri Lanka. As required by the WHO FCTC reporting, the number of full-time equivalent for tobacco control ranged from three in the Philippines to 41 in Thailand.

Funding for noncommunicable diseases interventions (including prevention, promotion, screening, treatment, surveillance, monitoring and evaluation, capacity-building, palliative care and research) were available in all seven countries, except for a research budget in Cambodia.

Data were not available on annual spending on noncommunicable diseases for each country.
The implementation gap in tobacco control policies was noted in these countries, ranging from US$21,739 in Cambodia to US$12 million in Vietnam (Table 3).

**Box 1. Best-buy interventions for the prevention and control of noncommunicable diseases: summary of achievements and gaps in seven Asian countries in July 2018**

**Bhutan**
Although smoking is illegal in Bhutan, the current prevalence of tobacco use among young people and adults is estimated to be 30.2% and 7.4%, respectively, in 2016. The country has good performance in ensuring smoke-free public spaces (compliance score 10/10) and total bans on tobacco advertising, promotion and sponsorship. Although excise taxes and restrictions on the availability and advertising of alcohol are in place, the legal minimum age for sale of alcohol beverage (18 years old) is the lowest among the seven countries. Bhutan is developing strategies on reduction of daily salt consumption and promotion of physical activity. While clinical guidelines for the management of four major noncommunicable diseases are produced, only four out of 12 essential medicines for management of these diseases are available in more than 50% of primary care facilities.

**Cambodia**
Tobacco control policies need considerable improvement. The tobacco tax rate is the lowest among the seven countries, 25.2% of the retail price. No price changes between 2008 and 2016 means that cigarettes are affordable by the WHO definition. There is room to strengthen compliance on smoke-free public spaces, increase the health warning areas on cigarette packages (55%) and introduce a ban on indirect marketing promotions. Cambodia needs to introduce a legal minimum age for sale of alcoholic beverages and to restrict alcohol availability, limit daily salt consumption and promote physical activity. The country needs to scale-up the availability of essential medicines in primary care facilities.

**Indonesia**
A very high prevalence of tobacco use was reported in Indonesia; 12.7% of young people and 64.9% of men are current tobacco users. Though not a State Party to the WHO Framework Convention on Tobacco Control, the government needs to increase the required tobacco tax rate (57.4%) and make cigarettes less affordable to discourage new smokers, scale-up the current low level (score 1/10) of compliance on smoke-free public spaces, increase health warning areas on cigarette packages (currently 40% of front and back areas), and introduce a ban on advertising and market promotion. Alcohol consumption is religiously prohibited and legal measures to reduce alcohol consumption are well-implemented. The legal minimum age for purchase is 21 years and restrictions of the times and places of alcohol availability and advertising are in place. Indonesia has yet to introduce a salt reduction policy. Health systems are responding well as 11 out of 12 essential medicines for noncommunicable diseases are available in primary care facilities.

**Philippines**
Although cigarettes were less affordable in 2016 than in 2008, the Philippines needs to further increase the tax rate (62.6%), improve compliance on smoke-free environments, increase the size of health warnings (50% of cigarette package areas) and increase compliance on bans on advertising and promotion. The country also needs to review the current legal minimum age (18 years) for sales of alcoholic beverages, introduce policies to limit daily salt consumption and increase the availability of essential medicines for clinical management in primary health care.

**Sri Lanka**
Although the tobacco tax rate is 62.1%, the lack of regular tax increases means that cigarettes are still affordable. Sri Lanka needs to further strengthen compliance on smoke-free environments and bans on advertising and promotion. The country is on the right path towards implementing salt reduction strategies and promotion of physical activity. Due to the strong emphasis on primary health care in the country, the availability of essential medicines at the primary care level has been ensured.

**Thailand**
Tobacco control is well-implemented with a high tax rate in place (73.5%), health warnings on 85% of the back and front package areas (which ranks third globally) and comprehensive regulations on advertising, market promotion and sponsorship. However, Thailand needs to improve compliance on smoke-free environments. Due to Thailand’s policy of universal health coverage, nine essential medicines for noncommunicable diseases are available at primary care facilities.

**Viet Nam**
Lack of regular increase in tax has resulted in more affordable cigarettes in 2016 than in 2008. Viet Nam therefore needs to increase its tax rate (35.7%) improve compliance on smoke-free environments and increase health warnings from the current 50% of package areas. Increasing the current minimum legal age for sales of alcoholic beverage (18 years) may prevent youth drinking. The country needs to introduce policies to reduce daily salt intake (currently only dietary guidelines are available and there is no front-of-package labelling), promote physical activity, and ensure more essential noncommunicable diseases medicines are available in primary care facilities.

Note: See Table 2 for more details and data sources. Affordability of cigarettes is defined by the percentage of per capita gross domestic product required to purchase 2000 cigarettes of the most sold brand.10
current per capita health spending (US$ 38.6 of US$ 989.2). Despite the well-established monitoring and evaluation system of the WHO FCTC, data on expenditure for tobacco control is not routinely updated for many countries. For example, the latest expenditure data on tobacco control in the Cambodia, Indonesia and Philippines were outdated, from 2008, 2008 and 2007, respectively.

Taxation on tobacco and alcohol has not reached the global targets in these seven countries, mainly due to the lack of multisectoral action to enforce legislative decisions on taxing these harmful products and countering industry interference. These concerns were highlighted by the UN Interagency Task Force on noncommunicable diseases conducted in these countries.31 Furthermore, primary prevention efforts in the seven countries are hampered by weak regulatory capacities, inadequate legal consequences for law violation and conflicts of interests among government officials. Regulatory gaps were illustrated by poor enforcement of smoke-free environments or of bans on tobacco advertising and promotion. Besides Sri Lanka and Thailand, integration of noncommunicable disease interventions at the primary care level need to be strengthened in the remaining five countries, to ensure essential medicines for clinical management, prevention of complications and premature mortality. Funding gaps for noncommunicable diseases, as reported by health ministries, remain an important national agenda in these countries and the governments need to invest more on effective interventions such as the recommended best buys, intersectoral actions and health-system responses for noncommunicable diseases.

Another possible explanation for insufficient progress of noncommunicable diseases prevention policy is industry interference.32 There is evidence from other countries that the tobacco industry37 use tactics to interfere with policy.32–35 alcohol,36 food and beverage industries37 use tactics to interfere with policies aimed at reducing consumption of their unhealthy products.

The South East Asia Tobacco Control Alliance has pioneered the Tobacco Industry Interference Index to monitor tobacco industry actions.38 Viet Nam and Indonesia have demonstrated high levels of industry interference,39 with marginal improvement between 2015 and 2016, which may be linked to the lack of progress on tobacco control in both countries. The tobacco industry has been more effective in promoting their products than governments have been in implementing effective interventions, as reflected by the slow progress in tobacco control efforts in the countries we analysed. In Indonesia, a non-State Party to the WHO FCTC, the level of tobacco industry interference is the highest, although the health ministry is drafting guidelines for interaction with the tobacco industry.40 Article 5.3 of the WHO FCTC guides State Parties to protect their tobacco control policies from the vested interests of the tobacco industry.41 Global experience shows how the tobacco industry’s corporate social responsibility activities are a platform for government officials to participate directly in the industry’s activities. All countries in this study have yet

### Table 3. Institutional capacity for the prevention and control of noncommunicable diseases in seven Asian countries in July 2018

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Bhutan</th>
<th>Cambodia</th>
<th>Indonesia</th>
<th>Philippines</th>
<th>Sri Lanka</th>
<th>Thailand</th>
<th>Viet Nam</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of full-time equivalent technical professional staff in noncommunicable diseases unit under health ministrya</td>
<td>4</td>
<td>7</td>
<td>16</td>
<td>19</td>
<td>41</td>
<td>39</td>
<td>7</td>
</tr>
<tr>
<td>No. of full-time equivalent staff in health ministry for tobacco control</td>
<td>14</td>
<td>6</td>
<td>12</td>
<td>3</td>
<td>10</td>
<td>41</td>
<td>20</td>
</tr>
<tr>
<td>National funding for noncommunicable diseases prevention, promotion, screening, treatment, surveillance, monitoring and evaluation, palliative care and researcha</td>
<td>Yes</td>
<td>Yes, except research budget</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Sources of funding for noncommunicable diseases and their risk factorsa</td>
<td>Government budget and donors</td>
<td>Government budget, donors and social protection schemes</td>
<td>Government budget and health insurance</td>
<td>Government budget and health insurance</td>
<td>Government budget and donors</td>
<td>Government budget, health insurance and Thai Health Promotion Foundation</td>
<td>Government budget, health insurance, donors and earmarked tobacco tax</td>
</tr>
</tbody>
</table>

US$: United States dollar.

a Personal communication with health ministries.
to establish procedures for disclosing interactions between governments and the industry.

Industry interference with government policies is further highlighted by Thailand's experience in introducing an excise tax on beverages containing sugar in 2017,42 where the government faced resistance by the Thai Beverage Industry Association that challenged the links between obesity and drinking soda.43

To address the commercial determinants of noncommunicable diseases and policy interference by industries, countries require improved governance, political leadership and a whole-of-government approach to making legislative decisions on taxation and strengthening regulatory capacities.

Monitoring and evaluation gaps

The existing systems for surveillance of health risks, including the prevalence of smoking, alcohol per capita consumption, daily salt intake and levels of physical inactivity, need strengthening, standardization and integration for comprehensive noncommunicable diseases policies to be formulated. Integrated household surveys such as the STEPwise approach to surveillance44 or equivalent should cover all noncommunicable diseases risks in one survey.

The lack of global standardized detail reporting on alcohol control hampers countries from monitoring and advancing the alcohol control agenda; for example, monitoring tax rates against the preferred level of tax rate, similar to the FCTC MPOWER report.19 Estimations of daily salt intake requires laboratory testing to quantify 24-hour urinary sodium excretion,45 and only a few countries worldwide conduct such surveys.46,47 The burden-some 24-hour collection of urine can be replaced by urine spot testing,48 which is more practical and less costly. Salt intake using spot urine samples can provide countries with a good indication of mean population salt intake.49 The level of daily salt intake is a powerful message for policy advocacy in educating the public and benchmarking with international peers. Monitoring measures for unhealthy diet reduction need to be more comprehensive. Such monitoring needs to cover people's consumption of trans-fat and sugar-sweetened beverages; policy interventions such as introduction of sugar-sweetened beverages taxes and bans on trans-fat in food; and the food industries' responses and adherence to policy.

Learning from the FCTC global tobacco epidemic report,18 the WHO and international partners should develop a standardized, comprehensive monitoring tool on alcohol, salt, unhealthy food, and physical activity and primary healthcare readiness to provide noncommunicable diseases services. The indicators in the country capacity survey50 are inadequate to drive health-systems responses to noncommunicable diseases.

Conclusion

Our survey identified more challenges than achievements in these seven Asian countries, although some progress has been made since implementing their national action plans on noncommunicable diseases control. Key underlying barriers for insufficient progress of noncommunicable disease policy are the lack of institutional capacities of noncommunicable disease units in managing action across different sectors; inadequate investment on primary prevention; and inadequate health-systems responses on clinical management. The multifactorial nature of noncommunicable disease requires coordinated health action across sectors within and outside the health system, including tax policies, health policies, food policies, transport and urban design. To overcome implementation gaps, governments need to improve the coordination of noncommunicable diseases units with other sectors, invest more in effective interventions such as the WHO recommended best buys, and improve monitoring and evaluation capacities.

Acknowledgments

We acknowledge the contributions of technical staff in the noncommunicable diseases units in the health ministry in all seven countries.

Competing interests: None declared.


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Content types: umbrella

Policy & practice

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للمختص:

تنفيذ خطط عمل وطنية بشأن الأمراض غير المعدية، إندونيسيا والفلبين، وبوتان وثايلند وسري لانكا وفيتنام وكمبوديا

عمد الكحول والملح وال تشبيك الألودحة (على الرغم من الانتقادات المتساوية المحدودة)؛ وعمد كفاءة العمل

وبهث البيانات المحتفزة داخل وخارجه النظام الصحي؛ وعمد

وإدارات موحدة للرصد والتشبيك تنقى السياسات. ولعالة

تقوم على مستوى التنمية، تجمع الحكومات أن تستمر

أثير في التدخلات المتعلقة بأشد التدخلات التي تتم بها

من الناحية الصحية، وتحسن العمل عبر مختلف القطاعات،

وتقيس القدرة على الرصد والتشبيك في الإبل السكن، بناء على الاستعداد

من المنظمة العالمية للأمم المتحدة، إذا بحث على كل من

الرابعة من الصحة العالمية والأديان الدولي تطوير أداء رصد قياسية

ونشاط البلدين واستجابة النظم الصحية.

ملخص

Résumé

Mise en œuvre de plans d'action nationaux sur les maladies non transmissibles au Bhoutan, au Cambodge, En Indonésie, aux Philippines, au Sri Lanka, en Thaïlande et au Viet Nam

En 2016, les États membres de l'Organisation mondiale de la Santé (OMS) avaient élaboré et mis en œuvre des plans d'action nationaux sur les maladies non transmissibles conformément au Plan d'action mondial pour la lutte contre les maladies non transmissibles (2013-2020). En 2018, nous avons évalué l'état de l'application des interventions les plus avantageuses recommandées en matière de maladies non transmissibles dans sept pays asiatiques: le Bhoutan, le Cambodge, l'Indonésie, les Philippines, le Sri Lanka, la Thaïlande et le Vietnam. Nous avons recueilli des données à partir de toute une série de rapports publiés et directement auprès des ministères de la Santé. Nous avons inclus les interventions qui concernaient la consommation de tabac et d'alcool, une activité physique inadéquate et une consommation de sel élevée, ainsi que les réponses des systèmes de santé, et nous avons identifié les lacunes et proposé des solutions. En 2018, les progrès des pays étaient largement dus à un financement inadéquat; des capacités institutionnelles limitées (malgré des unités dédiées aux maladies non transmissibles); une action inadéquate dans les différents secteurs au sein et en dehors du système de santé; et l'absence de mécanismes de suivi et d'évaluation standardisés pour orienter les politiques. Afin de combler ces lacunes, les gouvernements doivent investir davantage dans des interventions efficaces telles que les interventions les plus avantageuses recommandées par l'OMS, améliorer l'action dans les différents secteurs, et renforcer les capacités en matière de suivi et d'évaluation, mais aussi de recherche. En s'inspirant de la Convention-cadre pour la lutte antitabac, l'OMS et ses partenaires internationaux devraient élaborer un outil de suivi complet et standardisé sur la consommation d'alcool, de sel et d'aliments malsains, l'activité physique et la réponse des systèmes de santé.

Résumé

Oscillation des plans nationaux de politique dans le traitement des infections non contagieuses en Asie

K 2016 году страны-члены Всемирной организации здравоохранения (ВОЗ) разработали и осуществили национальные планы действий в отношении неинфекционных заболеваний в соответствии с Мировым планом действий по предотвращению и контролю распространения неинфекционных заболеваний (2013-2020 гг.). В 2018 году была проведена оценка выполнения рекомендаций и наиболее популярных мер борьбы с неинфекционными заболеваний в семи странах Азии: в Бутане, Вьетнаме, Индонезии, Камбodge, Таиланде, на Филиппинах и в Шри-Ланке. Были собраны данные ряда опубликованных отчетов, а также получены сведения непосредственно из министерств здравоохранения. Авторы включили в обзор действия в отношении употребления табака и алкоголя, борьбы с недостаточной физической активностью и высоким потреблением соли, а также оценили реакцию систем здравоохранения, выявили недостатки системы действий и предложили способы их устранения. По состоянию на 2018 год страны демонстрировали неравномерный прогресс. Основные недостатки предпринятых действий были связаны с недостаточным финансированием, ограниченными институциональными возможностями (не только на наличие специально созданных отделов по борьбе с неинфекционными заболеваниями), недостаточностью действий в разных секторах внутри системы здравоохранения и вне ее, а также с нежеланием стандартизированного механизма мониторинга и оценки для информирования лиц, принимающих стратегические решения. Для реализации отставания правительства должны больше инвестировать в эффективные меры борьбы, которые рекомендованы ВОЗ как наиболее популярные, улучшить взаимодействие секторов и расширить возможностями исследований, мониторинга и оценки. Опираясь на опыт Рамочной конвенции по борьбе против табака, ВОЗ и ее международные партнеры должны разработать стандартизированный всеобъемлющий метод мониторинга потребления алкоголя, соли и вредных продуктов питания, а также оценки физической активности и реакции системы здравоохранения.

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National action plans on noncommunicable diseases in Asia

Policy & practice
Resumen

Aplicación de planes de acción nacionales sobre las enfermedades no contagiosas, Bhután, Camboya, Filipinas, Indonesia, Sri Lanka, Tailandia y Vietnam

Para 2016, los Estados miembros de la Organización Mundial de la Salud (OMS) habían elaborado y aplicado planes de acción nacionales sobre las enfermedades no contagiosas de acuerdo con el Plan de acción mundial para la prevención y el control de las enfermedades no transmisibles (2013-2020). En 2018, se evaluó el estado de implementación de las intervenciones recomendadas en siete países asiáticos en materia de enfermedades no contagiosas: Bhután, Camboya, Filipinas, Indonesia, Sri Lanka, Tailandia y Vietnam. Se recopilaron datos de una serie de informes publicados y directamente de los ministerios de salud. Se incluyeron intervenciones que abordaron el uso del tabaco y el alcohol, la actividad física inadecuada y la ingesta elevada de sal, así como las respuestas de los sistemas de salud, se identificaron las deficiencias y se propusieron soluciones. En 2018, el progreso fue desigual entre los países. Las deficiencias en la aplicación se debieron en gran medida a la falta de financiación, a la limitada capacidad institucional (a pesar de las dependencias designadas para las enfermedades no contagiosas), a la inadecuación de las medidas adoptadas en los diferentes sectores dentro y fuera del sistema de salud y a la falta de mecanismos normalizados de supervisión y evaluación que sirvieran de base a las políticas. Para subsanar las deficiencias en materia de aplicación, los gobiernos deben invertir más en intervenciones eficaces, como las recomendadas por la OMS, mejorar las medidas adoptadas en los distintos sectores y aumentar la capacidad de seguimiento y evaluación y de investigación. A partir de las enseñanzas del Convenio Marco para el Control del Tabaco, la OMS y los asociados internacionales deberían elaborar un instrumento de seguimiento normalizado y completo para el consumo de alcohol, sal y alimentos no saludables, la actividad física y la respuesta de los sistemas de salud.

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