Abstract
The Asian-Eastern Mediterranean block has increased inhabitation of the smokeless tobacco users. Due to geopolitical reasons, Pakistan is one of the countries which is in danger of suffering from future smokeless tobacco-related morbidity and mortality due to weak policy measures. This paper is an overview of smokeless tobacco control measures practised in Pakistan, in comparison to its neighbouring countries sharing similar socio-cultural parameters. Tobacco control reports confined only to smokeless tobacco control were extracted for the region of Southeast Asia and Eastern Mediterranean regions published under World Health Organisation. The selection of countries from each region was based upon the fulfilment of the criterion of sharing common borders with Pakistan and holding a signatory status under framework convention on tobacco control. There is a need to revise existing tobacco control strategy to include smokeless tobacco reforms over pricing, packaging and media communication in Pakistan.

Keywords: Smokeless tobacco, Tobacco control, Health policy, Policy reforms, Asia.

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Introduction
Tobacco in all forms is an emerging threat to human survival. The health damaging effects of tobacco include premature or still births, increased dependency, adverse cardiovascular events (ACEs) and various forms of cancers which have been widely documented in literature.1,2 This is alarming for the developing countries which are home to most of world tobacco users.3 Furthermore, the political instability, receding economy and prevailing poverty has forced people to opt for unhealthy choices to relieve stresses and hunger. Since smokeless tobacco (ST) products are economical in this matter, hence, they remain the preferred choice for people in general.

ST and associated products are most widely consumed tobacco derivatives in the belt of Southeast Asian region (SEAR) and the Eastern Mediterranean region (EMR) for common birth history and socio-cultural acceptance.4-8 Not only these but predisposing factors such as accessibility, purchase power, weak legislation and delayed implementation of existing policies provoke many of the never users at risk of experimentation. Experts have estimated that if prompt measures are not enforced, it might kill 8 million people in the next decade.9 Considering the gravity of the problem and the observed epidemic shift, a public health treaty named World Health Organisation Framework Convention on Tobacco Control (WHO FCTC) was signed globally to protect people from adverse social, environmental, economic and health consequences of tobacco.10 Under this convention, tobacco control indicators were set with timely monitoring of member states.

Pakistan ratified this convention in 2004. Since then a number of measures have been adopted in terms of (smoked) tobacco control such as efforts to control its point-of-sale promotion, sponsorship, advertisements on mass media, smoke-free environments and sale of the products. However, the devastating effects of ST has received little attention in this regard.11,12 The current review was planned to study ST policies in Pakistan in the light Monitor, Protect, Offer help, Warn, Enforce bans and Raise tax (MPOWER) criterion.

Methods
The situation analysis was conducted to evaluate the progress of Pakistan in terms of ST control and to compare it with the neighbouring countries. A literature search was done to assess the improvement in MPOWER indicators set under FCTC in selected countries. The selection of neighbouring countries was based upon geographical landmarks sharing common borders with Pakistan and their membership to the global tobacco control treaty (Figure). In order to monitor the tobacco policies in Pakistan, online government documents were further assessed for demand reduction strategies, such as tax

Inadequate checks on smokeless tobacco usage in Pakistan: cultural heritage or policy neglect?
Atiya Abdul Karim1, Sumera Inam2, Abeeha Batool Zaidi3

1,3Ziauddin College of dentistry, Ziauddin University, Karachi Pakistan;
2School of Public Health, Dow University of Health Sciences, Karachi Pakistan.
Correspondence: Atiya Abdul Karim. e-mail: atiya.abdulkarim@gmail.com

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measures, packaging or labelling of products and media strategies, as endorsed in articles 6-12 of WHO-FCTC. The findings of these and the announcements made by Ministry of Health were closely monitored by another investigator between January 2017 and May 2018.

Situation analysis
In Asia, ST products are the major causative agents responsible for tobacco-associated morbidity and mortality. Each year, over a million deaths are caused by tobacco-associated diseases. In India and Pakistan, 8-10 % of the non-communicable disease (NCD) proclaimed deaths are caused by cancers. Among these, oral cancer remains the most common reason. It has been estimated that the risk of developing head and neck cancer is two-fold high in tobacco chewers than in the non-chewers.

Over the last decade, smoked tobacco users have switched to alternative forms and ST is one of them. This trend is observed higher in EMR and SEAR where most of the global ST users are living. Interestingly, against an observed decline in the global usage of smoked tobacco products, the ST users have increased in countries such as India and Bangladesh at a positive difference of 6% and 3% respectively.

Unlike India, Pakistan reports fairly high number of current ST users with an increased propensity in males. A large majority of the tobacco users (inclusive of ST component) are clinging to use it within 30 minutes of their bed-rise. This dependency phenomenon is relatively higher for (ST) products in comparison to smoked tobacco.

Table-1A: Smokeless tobacco consumption across selected countries of EMR and SEAR.

<table>
<thead>
<tr>
<th>Prevalence (%)</th>
<th>India</th>
<th>Bangladesh</th>
<th>Pakistan</th>
<th>Iran</th>
<th>Afghanistan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Youth smokeless use*</td>
<td>9.0</td>
<td>4.5</td>
<td>5.3</td>
<td>5.1</td>
<td>...</td>
</tr>
<tr>
<td>Male</td>
<td>11.1</td>
<td>5.9</td>
<td>6.4</td>
<td>5.4</td>
<td>...</td>
</tr>
<tr>
<td>Female</td>
<td>6.0</td>
<td>2.0</td>
<td>3.7</td>
<td>4.8</td>
<td>...</td>
</tr>
<tr>
<td>Adult smokeless use**</td>
<td>25.9</td>
<td>31.7</td>
<td>7.7</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Male</td>
<td>32.9</td>
<td>29.4</td>
<td>11.4</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Female</td>
<td>18.4</td>
<td>33.6</td>
<td>3.7</td>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>

*Youth: Ages 13-15; **Adult: National ages 15+; Data not reported. Extracted Global Tobacco Epidemic country profile pages; World Health Organization.

Table-1B: Forms of smokeless tobacco and associated products available in Pakistan.

<table>
<thead>
<tr>
<th>Names</th>
<th>Contents</th>
<th>Estimated price per pack*, 2016</th>
<th>Estimated price per pack*, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Niswar</td>
<td>Tobacco, slaked lime, indigo, cardamom, oil, and menthol</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Nass</td>
<td>Tobacco, ash, cotton, and sesame oil</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>Mainpuri</td>
<td>Areca nut, lime, and tobacco</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>Paan/betel quid</td>
<td>Areca nut, betel leaf, slaked lime, spice, and catechu, with or without tobacco</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Ghutka</td>
<td>Areca nut, tobacco, alkaline agents (magnesium carbonate)</td>
<td>**</td>
<td></td>
</tr>
<tr>
<td>Associated products†</td>
<td>Arecoline, cardamom, lime (add for areca)</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

*Per packet price of commercial selling (in Pakistani Rupee-PKR); ** banned/sold in prohibited ways; †(areca nut/supari, pan Masala); contents.

Records over smoked tobacco were excluded.

Figure: Selection of countries for the review of ST control measures.
average income of a person, the vulnerability of economic stress-induced abuse remains a future concern. Moreover, Pakistanis are still fighting to shed off endemic polio virus, and, as such, the control of ST products remains at the bottom of prioritised health agenda. Furthermore, political unrest over the past decades is a major impediment in the conduct of national level surveys to yield updated numbers to align policies accordingly. Unfortunately, no such predictions have been made precisely in case of Pakistan.

Policy Measures

Pricing and Tax

In view of the demand reduction side for ST policy-making, tax is being imposed on tobacco products either by ad valorem or specific tax. Interestingly, ST in low-income groups is much affordable for its cheaper price even in existing tax measures (Table 1B). Likewise for cigarettes, a 4% rise in the excise tax is anticipated to reduce the demand in 3 million smokers, preventing an additional million from being future smokers and will supplement a revenue of USD126 million. Unfortunately, no such predictions have been made precisely in case of Pakistan.

Media Awareness

All member states are further required to create public awareness among people in general about the aftermath of tobacco. Two mass media campaigns named "sponge", featuring cancerous tar absorbed by smokers’ lung, and "Tobacco is hollowing you out", about the harmful illnesses caused by tobacco, were aired in Pakistan. Although Pakistan has shown compliance with mass media indicators set under the convention (Table 3), the
specificity of these campaigns against the relative burden of Gutka and sweetened areca hazards is entirely missing. In this regard, India has set an example by implementing a 30-second media campaign known as SURGEON, in collaboration with World Lung Foundation, featuring personal stories of patients suffering from oral cancers.\(^{40}\) Also, there is timely evaluation of the impact of designated campaigns to see their cost-effectiveness.\(^{40,41}\)

**Recommendations**

The policy makers must conduct national level surveys to estimate the inflation of ST users and frame policies accordingly; qualitative and quantitative inspection must be done on all available ST products inclusive of their biochemical assessments which shall be made public; ST-associated products, such as areca nut, must be included in the policy framework; packaging reforms, such as presence of effective warning labels, must be regulated and checked with periodic intervals; tax reforms are needed to raise the threshold of the affordability index of a street user; penalty be imposed on indirect advertisement of ST products by local television cable operators and its enhancement by the Pakistan Electronic Media Regulatory Authority (PEMRA); and capacity-building must be done to train health professionals / doctors / dentists / pharmacists / nurses / paramedical staff about cessation strategies and to ensure low-cost services at the primary care level.

**Conclusion**

Despite being a signatory to the global tobacco control treaty, there is an inadequacy in the demand reduction strategy of ST products in Pakistan. Hence, reforms are needed to comply with pledges made under WHO-FCTC.

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**References**


31. The newspaper’s staff reporter, Indian gutka seized in metropolis. DAWN. 2018.