

# Policies for addressing smokeless tobacco (ST) use in Bangladesh



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## **Objectives**



## **Smokeless Tobacco (ST)**



## **ST in South Asia**



## **ST** – hidden disparities



Rural/Urban Education Wealth index



ST trends (1990 – 2019)

Females

### Males



## New Knowledge on ST policies: few examples

Defined ST products available worldwide	Found that the pro-tobacco cues for <u>youth</u> are stronger than the anti-tobacco policies	There are many policy <u>gaps</u> to control ST acrosss the globe	The <u>impact</u> of policies (FCTC and non-FCTC) on ST control can be significant	Discovered the potential effectiveness of behavioural support and NRT for ST <u>cessation</u>
ST-related <u>disease</u> burden is increasing in South Asia	ST-related <u>economic</u> burden is huge in South Asia		Found that the policy <u>implementation</u> was even weaker for ST	Uncovered and estimated the large scale <u>illicit</u> ST trade in South Asia



Addressing Smokeless Tobacco Use & Building Research Capacity in South Asia

## An ontology of ST products used around the globe

#### **KEY FINDINGS**

**65** ST products across the globe were mapped and defined as per:

- product type
- tobacco type and composition
  - preparation and final form

- mode of use

A hierarchy with 7 classes and 28 subclasses

#### **IMPLICATIONS**

Lack of clarity impedes progress

An ontology defines a common vocabulary

It helps achieve shared knowledge

ASTRA created ontological definitions by standardising descriptions of ST terms

Available on https://addictovocab.org/ADDICTO :0000292

The ontology will be linked with the Paper Authoring Tool

#### RATIONALE

ST products vary hugely depending on the geographical location (by names, ingredients, manufacturing, physical form, etc.). No vocabulary

#### **Predictors of ST use in adolescents**

#### RATIONALE

Tobacco use among adolescents is influenced by environmental cues. Little is known of such associations in South Asia where adolescents access diverse ST products.

Pro-tobacco cues	Anti-tobacco cues
Exposure to ST use in: public places the media	Shopkeepers refusing to sell ST products to youth
Offered free ST products	Little influence of anti-tobacco campaigns

#### IMPLICATIONS

Strict enforcement of bans on: ST advertisement, promotion and sponsorship including electronic and social media; and sales to and by minors – likely to be impactful



## The global burden of diseases due to ST

#### RATIONALE

The distribution and health risks of ST differ from that of smoking; hence, there is a need to estimate its distinct health impact

#### **KEY FINDINGS**

ST is consumed by 350m people in 140 countries; 85% in South Asia

In 2017, India (70%), Pakistan (7%) and Bangladesh (5%) bore most of the global STrelated disease burden - a loss of 8.5 million disability-adjusted life-years (DALYs) and 350,000 deaths

#### **IMPLICATIONS**

Unlike cigarettes, ST use is <u>NOT</u> declining, and disease burden has risen by onethird. Failure to address ST may compromise the health gains made by reducing cigarette demand





## The economic burden in south Asia attributable to ST

#### RATIONALE

85% of >300m users of ST are in SEAR Increased risk of oral cancers, CVDs, mortality What works and at what cost? Need to understand the 'baseline' for a policy change

#### **KEY FINDINGS**

ST has a substantial negative impact through increased morbidity and premature mortality

The burden of ST is clearly evident through the associated healthcare costs

The ASTRA economic model can be used to evaluate the costeffectiveness of policy interventions in the future

	Costs (US thousands)	Costs (Country Currency millions)
INDIA		
Men	\$13,592,990	(INR) 957,218
Women	\$5,761,142	(INR) 405,700
BANGLADESH		
Men	\$698,265	(BDT) 58,968
Women	\$987,354	(BDT) 83,382
PAKISTAN		
Men	\$2,225,187	(PKR) 333,867
Women	\$1,105,870	(PKR) 165,925

#### **IMPLICATIONS**

If policy *status quo* remains, South Asian nations will borne substantial cost burden in the future

Decision-makers will require evaluations of cost effectiveness interventions to reduce ST use

## The global policy gaps for ST

#### RATIONALE

Global tobacco control policies cover cigarette smoking but do they cover ST to the same extent is not clear

#### **KEY FINDINGS**

**3%** countries regulate ST <u>contents</u>

**19%** countries <u>tax</u> ST; even these tax ST below cigarettes

**23%** mandate pictorial health <u>warning</u> and the requirements are less strict than cigarettes

**9%** countries ban ST <u>advertisement</u>, promotion, and sponsorships



#### **IMPLICATIONS**

For ST, the policies are few and the bar is much lower. No wonder we are not seeing a downward trend in ST use as observed for smoking

Mehrotra 2019

## **ST control policies in South Asia**

Mandate to label nicotine and tar contents on the pack Mandate to have excise stamp affixed on the pack Prohibition on quantity, that is, loose sale or in a small unit Ban on use in public places Pictorial health warning labels on packs Restriction on direct advertisement of tobacco Restriction on indirect advertisement of tobacco Prohibition on sale of tobacco to and by minors Ban on sale and distribution of tobacco within 100 yards of educational institutions Ban on use of tobacco and nicotine as an ingredient in any food item Ban on advertisement and glamorization of tobacco products in films and TV Ban on advertisements that promote tobacco directly or indirectly The requirement of weight, measurement, packaging and labeling Ban on use of plastic to pack tobacco products Ban on the use of tobacco in toothpastes/tooth powders License for manufacturing of tobacco Tobacco taxation Ban on spitting and littering in public places



## The impact of tobacco control policies on ST

#### **KEY FINDINGS**

RATIONALE FCTC has been instrumental in reducing smoking prevalence but its impact on ST remains unclear 57 countries - policies for ST 17 countries - non-FCTC policies (e.g. spitting bans)

Eighteen studies (of variable quality) evaluated the impact of policies initiatives

FCTC-based policies - reductions in ST prevalence: between -4.4% to -30.3% for taxation and -21.9% to -70.9% for a combination of policies

Non-FCTC policy of sales bans reported mixed results; one study significant reductions in ST sale (-6.4%) and use (-17.6%); another an increase in ST use in the youth

#### **IMPLICATIONS**

Rise in taxes will reduce ST use - price elasticity: 0.5 in India. 0.39-0.64 in Bangladesh and 0.55 in Pakistan

Taxation and a combination of policies are likely to be effective in reducing ST use

#### ST cessation in South Asia: findings from a randomised controlled trial

#### RATIONALE

Lack of evidence for behavioural support (BhS) and nicotine replacement therapy

Need to identify feasibility of conducting a full trial of the above interventions in South Asian settings



#### **KEY FINDINGS**

Biochemically verified abstinence completing 26-week follow-ups

7/59 (11.9%) in NRT arm

9/59 (15.3%) in BhS arm

4/61 (6.6%) in the combination (NRT + BhS) arm

3/56 (5.4%) receiving no intervention (VBA only)

#### **IMPLICATIONS**

It is feasible to conduct a multi-country trial of ST cessation in South Asia

Our findings indicate favourable abstinence rates for NRT and BhS when delivered on their own

## ST supply chain - the unregulated production, marketing and sale

#### **KEY FINDINGS**

RATIONALE Gaps in evidence on compliance with ST control policies in South Asia ST contains variable and high quantities of nicotine, Ph and Tobacco Specific **Nitrosamines** ST is sold in variable quantities and size packs ST escapes the tax-net Packs rarely comply with national laws ST sale to and by children is common Vendors and suppliers are unaware of the health effects and policies Point-of-sale advertisement of ST is common

Non-compliance of ST products with national laws



#### **IMPLICATIONS**

There is "weak implementation and sub-optimal compliance" with the existing ST policies

#### RATIONALE

ST is not considered as a priority policy focus

Illicit trade in ST - seldom documented

#### **KEY FINDINGS**

In Bangladesh and India, almost all ST products are illegal

84% of ST packs in Bangladesh and 93% in India have no pictorial health warning or the size is too small

30% ST packs in Bangladesh and 7% in India do not comply with text health warnings requirements

KEY FINDINGS					
Pack features (Themes	Illicit percentage (95% CI)				
for illicit ST products)	Bangladesh	India			
(a) MRP not printed	56.9 (47.4, 66.1)	2.4 (0.10, 12.9)			
(c) No sale statement disclosure	72.4 (63.6, 80.4)	-			
(d) No PHW or inappropriate size of PHW	84.4 (76.6, 90.5)	92.6 (80.1, 98.5)			
(e) No THW or inappropriate language	30.1 (22.0, 39.4)	7.3 (1.5, 19.9)			
(f) Presence of any Misleading Descriptors	61.2 (51.7, 70.1)	31.7 (18.1, 48.1)			
Overall estimate of illicit ST Packs/Potential illicit packs	92.2 (85.8, 96.4)	92.6 (80.1, 98.5)			

#### **IMPLICATIONS**

Weak and poorly enforced ST control policies

## Recommendations

- Products regulation: remove flavours, restrict TSNAs, set standards and monitor their contents
- Sellers: retail licensing and viable alternatives
- Marketing: strict ban enforcement on online/social media advertising; ST standardised packaging and POS bans
- Minors: empower communities to enforce bans, legal age
- Cessation: expand services to cover ST
- Fiscal measures: increase tax frequently and greater than cigarettes with a minimum floor price = 20 cigarette pack

# Thank You



FUNDED BY



# Reading list

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