Global review of tobacco product flavour policies

Olufemi Erinoso, Katherine Clegg Smith, Michael Iacobelli, Sejal Saraf, Kevin Welding, Joanna E Cohen

ABSTRACT
Objective We determined which countries prohibit flavoured tobacco products and the details of those restrictions in order to identify possible gaps and opportunities for these and other countries to address.
Methods We reviewed the grey literature, scanned news articles and consulted with key informants and identified 11 countries and the European Union (EU) that ban or restrict tobacco product flavours. We reviewed policy documents for their stated policy rationale, terms and definitions of flavours, tobacco products covered and restrictions on the use of flavour imagery and terms on tobacco product packaging.
Results Countries with a tobacco product flavour policy include the USA, Canada, Brazil, Ethiopia, Uganda, Senegal, Niger, Mauritania, EU (28 Member States), Moldova, Turkey and Singapore. Most of the countries’ policies provide a rationale of dissuading youth from taking up tobacco use. Ten of the 12 policies use the terms ‘flavours’ (n=6) or ‘characterising flavours’ (n=4). Six policies cover all products made entirely or partly of tobacco leaf. Countries consistently prohibit flavours associated with fruits, vanilla and spices. The USA and Niger make an exception for menthol, while Mauritania and Uganda do not specify the scope of flavours or ingredients covered by their policies. Eight policies make no specific reference to restricting flavour descriptors on tobacco product packaging.
Conclusion Countries looking to implement policies restricting flavours in tobacco products can build on existing comprehensive policies. Future research could examine the implementation and impacts of these policies, to inform other countries interested in acting in this policy domain.

INTRODUCTION
Flavours shape perceptions of and experience with tobacco products,1 provide variety and diversity in the market, are often perceived as less harmful and impart a taste, aroma or sensation beyond that imparted by tobacco-flavoured products.1 2 Flavoured tobacco products increase appeal, which Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to
Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to Flavoured tobacco products increase appeal, which might be exploited by the tobacco industry to

METHODS
Identification of tobacco product flavour policies
Countries that have national-level tobacco flavour policies as of August 2019 were identified using three sources: (1) search of the 2015 Tobacco Control Legal Consortium report on How Other Countries Regulate Flavored Tobacco Products;11 (2) communications with Campaign for Tobacco-Free Kids’ International Legal Consortium (ILC)12 and (3) search of news stories using ‘Tobacco Watcher’ (https://tobaccowatcher.globaltobaccocontrol.org), an online tobacco media monitoring site.13
Countries were included if they had enacted national or multinational regional tobacco product flavour policies. Policies were reviewed from government websites and the CTFK Tobacco Control Laws online database when we required an English translation.14

Original research


© Author(s) (or their employer(s)) 2020. Re-use permitted under CC BY-NC. No commercial re-use. See rights and permissions. Published by BMJ.

## Results
### Overview
We identified 12 eligible, currently active or pending policies (11 national policies and the EU TPD) pertaining to tobacco product flavours. The countries identified were the USA, Canada, Brazil, Ethiopia, Uganda, Senegal, Niger, Mauritania, EU, Moldova, Turkey, and Singapore (figure 1).

### Data extraction
Descriptive information was extracted from policy documents representing 11 countries and the European Union’s (EU) Tobacco Products Directive (TPD) relating to the following seven constructs: (1) policy rationale, (2) terms and definition of prohibited flavours, (3) tobacco products covered, (4) policy implementation status, (5) prohibition of flavour descriptors or imagery on packaging, (6) preemption status and (7) restrictions on mechanism of flavour delivery (eg, capsules).

### Data analysis
The term ‘countries’ is used throughout to include the EU. Similarities and differences between policies were determined by assessing the extracted data across countries. Potential gaps were identified based on the comprehensiveness of the seven policy constructs recorded for each country.

### Figure 1
Timeline for enactment of flavour policies by country and the EU. EU, European Union; RYO, roll-your-own; TPD, Tobacco Products Directive.

<table>
<thead>
<tr>
<th>Year</th>
<th>Canada</th>
<th>United States</th>
<th>EU TPD</th>
<th>Singapore</th>
<th>Senegal</th>
<th>Mauritania</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>• Non-menthol flavors in cigarettes</td>
<td>• Non-menthol characterizing flavors in cigarettes</td>
<td>• All flavors in cigarettes and RYO tobacco</td>
<td>• Fruit flavors in waterpipe products</td>
<td>• All flavors in tobacco leaf products</td>
<td>• Ingredients that improve the taste of all tobacco leaf products</td>
</tr>
<tr>
<td>2012</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Brazil
• All flavors in tobacco leaf products

Turkey
• Select non-menthol flavors in cigarettes and RYO (2012)
• Menthol flavor in cigarettes and RYO tobacco (2015)
• All flavors in cigarettes and RYO tobacco (2019)

Ethiopia
• All flavors in tobacco leaf products

Moldova
• All flavors in cigarettes and RYO tobacco

Uganda
• All flavors in tobacco leaf products

## References

Brazil, Ethiopia, Uganda, Senegal, Niger, Mauritania, EU, Moldova, Turkey and Singapore (figure 1).

As of September 2009, the USA prohibits cigarettes with characterising flavours (described further below) except for menthol under the authority of the Family Smoking Prevention and Tobacco Control Act (FSPTCA). In Canada, the Tobacco Act was amended in October 2009 to ban the sale of flavoured cigarettes, little cigars that weigh no more than 1.4 g, and blunt wraps, with the exception of menthol. Amendments adopted in December 2015, October 2017 and November 2018 expanded the restrictions to include cigars weighing more than 1.4 g but less than 6 g, include menthol cigarettes and prohibit illustrations of flavour on e-cigarette products, but not prohibit the sale of flavoured e-cigarettes themselves.

In 2012, the Brazilian Health Regulatory Agency (ANVISA) passed a regulation (RDC 14/2012) that bans additives, including flavours, in tobacco products. Brazil’s flavour policy is not in effect as it is being challenged by Sinditabaco and other industry-related groups in Brazil.

The Turkish Tobacco and Alcohol Market Regulation Agency issued regulations in 2012 (amended in 2015 to include menthol)
prohibiting 43 ingredients in cigarettes and roll-your-own (RYO) tobacco. Additional regulations by the Ministry of Agriculture and Forestry were passed in 2019, prohibiting all scents and flavours in these products; these provisions go into effect in May 2020.

In May 2014, the EU TPD was enacted, which binds all 28 Member States to a prohibition on the sale of cigarettes and RYO tobacco with a characterising flavour, including menthol, if the union-wide sales volume for a particular product represents 3% or more of that product category by 2020. (That is, if coffee-flavoured cigarettes represent at least 3% of EU cigarette sales by volume, they would be prohibited.) The final date for transposition of the TPD into law in all 28 EU Member States was set at May 2016 for characterising flavours, while the menthol provisions go into effect in May 2020.

In November 2014, Singapore enacted the Tobacco (Control of Advertisements And Sale) Act prohibiting water pipe tobacco with fruit flavours and their policy is in effect. Three countries—Ethiopia, Moldova and Uganda—passed flavoured tobacco product restrictions in 2015, followed by Senegal in 2017. Ethiopia’s and Senegal’s policies are in effect. Uganda was successful against a court challenge by British American Tobacco, Uganda (BATU) in May 2019,27 passing Tobacco Control Regulations in August 2019 with an expected implementation date of 1 February 2020. Moldova’s policy goes into effect in May 2020. Niger and Mauritania enacted flavoured tobacco policy restrictions in 2017 and 2018, respectively, although their policies were not yet in effect as of January 2020. None of the policies we reviewed had clauses that preempt lower jurisdictions from enacting stronger policies, but neither did any include explicit antipreemption language.

Provided rationale

The policies in five countries (Ethiopia, Uganda, Senegal, Niger and Moldova) and the EU detailed an obligation to the WHO FCTC3 and the protection of public health as the rationale for prohibiting flavours. Six countries (USA, Canada, Ethiopia, Niger, Mauritania, Moldova) and the EU specified the protection of young people from the effects of tobacco as the rationale for their policies. For example, the Canadian Tobacco Act directly states, ‘to protect young persons and others from inducements to use tobacco products and the consequent dependence on them’.16 Other rationales provided include protecting the environment,20 21 24 the economy and facilitating trade within regional markets as seen in the EU TPD.25

Terms

Four terms were used to refer to flavours in the policies. These were: (1) ‘characterising’ or ‘characteristic’ flavour (USA, EU TPD, Moldova and Turkey); (2) ‘flavour’ (Canada, Brazil, Ethiopia, Uganda, Niger and Singapore); (3) ‘characteristic aromatic agent’ and ‘aromatic agent’ (Senegal) and (4) ‘ingredients’ (Mauritania) (table 1).

These four terms can be grouped broadly under two definitions. First, definitions that prohibit flavours with distinct/distinguishable/identifiable/noticeable properties (seven countries). Second, as seen in Brazil, Canada and Mauritania, definitions that prohibit additives or ingredients with flavour properties, which may not be noticeable or distinct but are able to impart and modify the flavour of tobacco products. Uganda and Singapore have no definition for the term ‘flavour’ used in the policy document containing their flavour bans.

The USA does not explicitly define ‘characterising flavour’; however, it identifies flavours that are similar to the definitions used by countries that define the term ‘characterising flavour,’ in that they possess distinct or noticeable sensory effects in finished or unfinished tobacco products. Canada and Brazil use the term ‘flavours’ in reference to the prohibition of additives with flavouring properties in tobacco products, drawing from the Joint FAO/WHO Expert Committee on Food Additives (FAO JECFA) list for prohibited flavours.31 Mauritania uses the broad term ‘ingredients’ and specifies the prohibition to include ingredients that ‘can improve the taste of tobacco products’; however, the policy does not specify the need for the flavours to possess distinct or noticeable perceptible sensory effects in tobacco products.

Flavours banned, capsules and exemptions

The USA and Niger prohibit all flavours except menthol in cigarettes. Canada prohibits menthol and other flavours, with the exception of cigars (without a cigarette filter, tipping paper and has a wrapper fitted in a spiral form) that weigh more than 1.4 g or 6 g or less; these products are allowed to have additives used to impart traditional alcohol flavours (eg, rum, whisky, wine, port). Brazil also prohibits menthol and other flavours. Both Canadian and Brazilian policies draw from, but are not limited to, the FAO JECFA. Brazil goes a step further by also referencing, although not limited to, 146 additives identified as flavours by the Flavor and Extract Manufacturers Association (FEMA).29 32 33 Ethiopia, Senegal, Turkey, Moldova and the EU include menthol in their policies. Policies in Mauritania and Uganda do not specify the banned flavours, and there is no reference to menthol specifically, although Mauritania states that restrictions extend to ingredients that ‘can improve the taste of tobacco products’. Singapore prohibits only fruit-flavours in waterpipe tobacco.

Flavours are prohibited in component parts of tobacco products such as papers and filters in the USA, Canada, the EU, Moldova, Turkey and Mauritania; further, the EU, Moldova and Turkey specifically prohibit flavours in capsules as mechanisms of flavour delivery.

Tobacco products covered

The tobacco products covered by the flavour bans vary, with most policies covering all products made entirely or partly of tobacco leaf. The USA, EU, Moldova and Turkey prohibit flavours in cigarettes and RYO products only. The EU prohibits additives in e-cigarette liquids that suggest a health benefit (eg, vitamins, caffeine or stimulants). In Canada, the prohibition of non-menthol flavours covers cigarettes, cigars (less than 6 g), little cigars (less than 1.4 g) and blunt wraps; menthol flavours are prohibited in all tobacco products. Brazil, Ethiopia, Mauritania, Niger, Senegal and Uganda restrict flavours in products manufactured or derived partly or entirely from tobacco leaf. Singapore prohibits fruit-flavours only in waterpipe products.

Ban on flavour descriptors and images on tobacco packaging

Canada prohibits flavour descriptors and imagery on tobacco and e-cigarette packaging stating: ‘No one shall promote ... by means of the packaging, through an indication or illustration, including a brand element, that could cause a person to believe that the product has a flavour’.18 The EU TPD prohibits characterising flavour elements in text, signs or symbols on packaging as well as terms that state no flavouring. Moldova has a similar policy which prohibits text or image illustrations of flavours on tobacco product packaging; and Turkey prohibits

---


---

Original research

Tob Control: first published as 10.1136/tobaccocontrol-2019-055454 on 15 May 2020. Downloaded from http://tobaccocontrol.bmj.com/ on October 21, 2023 by guest. Protected by copyright.
### Table 1  Flavour terms, definitions, rationale, tobacco products covered and implementation status, by country

<table>
<thead>
<tr>
<th>Country</th>
<th>Term</th>
<th>Definition and prohibited flavours</th>
<th>Rationale</th>
<th>Tobacco products</th>
<th>Implementation status (as of 2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>Characterising flavour</td>
<td>The Act prohibits any ‘constituent (including a smoke constituent) or additive, an artificial or natural flavor (other than tobacco or menthol) or an herb or spice, including strawberry, grape, orange, clove, cinnamon, pineapple, vanilla, coconut, licorice, cocoa, chocolate, cherry, or coffee, that is a characterizing flavor of the tobacco product or tobacco smoke.’</td>
<td>Protection of young persons</td>
<td>Cigarettes, roll-your-own tobacco</td>
<td>In effect</td>
</tr>
<tr>
<td>Canada</td>
<td>Flavour</td>
<td>No definition. Canada does not define the term ‘flavours’ but uses the term in describing prohibited additives. Additives that have flavoring properties or that enhance flavor, including - additives identified as flavoring agents by the Joint FAO/WHO Expert Committee on Food Additives in the Committee's evaluations, as published from time to time in the WHO Technical Report Series - additives identified as flavouring substances by the Flavor and Extract Manufacturers Association (FEMA) Expert Panel in its lists of GRAS (Generally Recognized as Safe) flavouring substances referred to as ‘GRAS 3’ to ‘GRAS 24’ and subsequent GRAS lists … Fruits, vegetables or any product obtained from the processing of a fruit or vegetable, Spices, seasoning and herbs… Sugars and sweeteners, excluding starch’15, 16  ‘The Order will prohibit flavours, including menthol, in close to 95% of the tobacco products (based on total sales value) in Canada.’</td>
<td>Protection of young persons Protection of public health</td>
<td>Cigarettes, Cigars (&lt;6g), little cigars, blunt wraps</td>
<td>In effect</td>
</tr>
<tr>
<td>Brazil</td>
<td>Flavour</td>
<td>‘It is prohibited to import or sell in Brazil tobacco products that contain any of the following additives: I – synthetic and natural substances in any form (pure substances, extracts, oils, distillates, balms, among others), with flavoring properties that can impart, intensify, modify or enhance the flavor of the product, including additives identified as flavoring agents: a) by the Joint FAO/WHO Expert Committee on Food Additives - JECFA; or b) by the Flavor and Extract Manufacturers Association – FEMA … VI - fruits, vegetables or any product originating from the processing of fruits and vegetables, except activated charcoal and amides; VII – sweeteners, honey, molasses or any other substance that can impart a sweet flavor, apart from sugars; VIII – seasonings, herbs and spices or any substance that can impart a flavor of seasonings, herbs and spices’</td>
<td>No rationale statement</td>
<td>Tobacco products containing partially or wholly in its composition tobacco leaf (Definition as stated in the policy does not explicitly include or exclude products such as electronic cigarettes)</td>
<td>Under litigation*</td>
</tr>
<tr>
<td>Ethiopia</td>
<td>Flavour</td>
<td>‘any tobacco product that contains any content or ingredient, singly or in combination with other contents and ingredients, that in an un-combusted state or upon combustion or pyrolysis imparts a distinguishable taste or aroma, other than the taste or aroma of tobacco, including, but not limited to, tastes or aromas of fruit, chocolate, vanilla, honey, candy, cocoa, menthol, mint, alcoholic beverage, herb or spice’</td>
<td>Protection of young persons Protection of public health Protection of the environment Obligation to WHO FCTC</td>
<td>Tobacco products containing partially or wholly in its composition tobacco leaf (Definition as stated in the policy does not explicitly include or exclude products such as electronic cigarettes)</td>
<td>In effect</td>
</tr>
<tr>
<td>Uganda</td>
<td>Flavour</td>
<td>No definition</td>
<td>Protection of public health Protection of the environment Obligation to WHO FCTC</td>
<td>Tobacco products containing partially or wholly in its composition tobacco leaf (Definition as stated in the policy does not explicitly include or exclude products such as electronic cigarettes)</td>
<td>In effect</td>
</tr>
<tr>
<td>Senegal</td>
<td>Characteristic aromatic agent Aromatic agent</td>
<td>‘a taste or scent, other than that of the tobacco, coming from an additive or a combination of natural or artificial additives, particularly those derived from fruits, spices, aromatic plants, alcohol, sweetening elements, menthol, chocolate or vanilla, and which is identifiable prior to or during the consumption of the tobacco product’ ‘an additive that confers, modifies or improves a flavor or scent, by itself or in conjunction with other ingredients’</td>
<td>Protection of public health Obligation to WHO FCTC</td>
<td>Tobacco products containing partially or wholly in its composition tobacco leaf (Definition as stated in the policy does not explicitly include or exclude products such as electronic cigarettes)</td>
<td>In effect</td>
</tr>
</tbody>
</table>

*Under litigation*
Table 1  Continued

<table>
<thead>
<tr>
<th>Country</th>
<th>Term</th>
<th>Definition and prohibited flavours</th>
<th>Rationale</th>
<th>Tobacco products</th>
<th>Implementation status (as of August 2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Niger</td>
<td>Flavour</td>
<td>‘a taste or smell, other than that of tobacco, derived from an additive or combination of natural or artificial additives, especially fruit, spices, herbs, alcohol, confectionery, chocolate or vanilla; identifiable before or during the consumption of a tobacco product with the exception of menthol.’</td>
<td>Protection of young persons and women. Obligation to WHO FCTC</td>
<td>‘Tobacco products containing partially or wholly in its composition tobacco leaf.’ (Definition, as stated in the policy, does not explicitly include or exclude products such as electronic cigarettes)</td>
<td>Not in effect.</td>
</tr>
<tr>
<td>Mauritania</td>
<td>Ingredients</td>
<td>‘any substance other than the leaves and other natural or untransformed or unprocessed parts of the tobacco plant used in the manufacture or preparation of a tobacco product and still present in the finished product, even in modified form, including the paper, filter, inks and glues’</td>
<td>Protection of young persons Protection of public health Protection of the environment</td>
<td>‘Tobacco products containing partially or wholly in its composition tobacco leaf.’ (Definition as stated in the policy does not explicitly include or exclude products such as electronic cigarettes)</td>
<td>Not in effect. Legislative provision to be ratified by a Decree</td>
</tr>
<tr>
<td>EU TPD25</td>
<td>Characterising flavour</td>
<td>‘characterising flavor means a clearly noticeable smell or taste other than one of tobacco, resulting from an additive or a combination of additives, including, but not limited to, fruit, spice, herbs, alcohol, candy, menthol or vanilla, which is noticeable before or during the consumption of the tobacco product’</td>
<td>Protection of young persons Protection of public health To facilitate the smooth functioning of the internal market for tobacco and related products Obligation to WHO FCTC</td>
<td>Cigarettes (including capsules) and roll-your-own tobacco</td>
<td>Comes into full effect on May 2020</td>
</tr>
<tr>
<td>Moldova24</td>
<td>Characteristic flavour</td>
<td>‘a clearly noticeable smell or taste other than one of tobacco, resulting from an additive or a combination of additives, including, but not limited to, fruit, spice, herbs, alcohol, candy, menthol or vanilla, which is noticeable before or during the consumption of the tobacco product.’</td>
<td>Protection of young persons Obligation to WHO FCTC</td>
<td>Cigarettes (including capsules) and roll-your-own tobacco</td>
<td>Comes into effect on May 2020</td>
</tr>
<tr>
<td>Turkey27</td>
<td>Characteristic flavour</td>
<td>‘The scent or flavor noticed before or during the use of tobacco products that can be distinguished from the tobacco’s own flavor originating from an additive such as but not limited to fruit, spices, herbs, alcohol, sugar, menthol or vanilla’</td>
<td>Protection of public health In compliance with EU TPD</td>
<td>Cigarettes (including capsules) and rolling tobacco</td>
<td>Comes into full effect on May 2020</td>
</tr>
<tr>
<td>Singapore28</td>
<td>‘Flavour’</td>
<td>No explicit definition for flavours. Policy applies to ‘aromatic oils, aromatic extracts, molasses or sugar, … [or] flavored with fruit.’</td>
<td>No rationale statement</td>
<td>Water-pipe tobacco</td>
<td>In effect</td>
</tr>
</tbody>
</table>

Canada: The Joint FAO/WHO Expert Committee on Food Additives (JECFA) and Flavour and Extract Manufacturers Association (FEMA) Expert Panel in its lists of GRAS (Generally Recognised as Safe) flavouring substances referred to as ‘GRAS 3’ to ‘GRAS 24’. In Canada, for cigars that weigh more than 1.4 g or 6 g or less (not including the ‘weight of any mouthpiece or tip’) rum, whisky, wine and port flavours are allowed (as long as the cigar does not have a cigarette filter, a tipping paper and has a wrapper fitted in spiral form); also, in cigars that weigh ≥6g, there are no flavour restrictions (as long as the cigar does not have a cigarette filter, a tipping paper and has a wrapper fitted in spiral form). The order amending the schedule to the Tobacco Act (Menthol) removes menthol from the list of excluded additives, and by effect, menthol is added to the list of banned flavours.

* Brazil: ANVISA resolution no. 14 2012.17

FCTC, Framework Convention on Tobacco Control; TPD, Tobacco Products Directive.

a ‘distinguishing mark … that refers to taste, scent, any flavor additive or other additive substances or absence thereof’. In the USA, Brazil, Ethiopia, Uganda, Senegal, Niger and Mauritania, there is no specific prohibition of ‘flavour’ descriptors on tobacco product packaging, but this may be implied given the prohibition of flavour ingredients. The Singaporean policy makes no reference to packaging.

**DISCUSSION**

This is the first global review of national policies restricting flavours in tobacco products. Eleven countries and the 28 EU Member States restrict flavours in some tobacco products. Similarities exist in the rationale for policy, with the protection of children and public health commonly cited. The most common tobacco products covered by existing flavour policies are cigarettes, with only the EU regulating a small portion of e-cigarette liquid flavours. The EU, Moldova and Turkey specifically prohibit flavours in cigarette capsules. Menthol is included in the flavour ban policies of eight countries and the EU. Six countries explicitly prohibit the use of flavour terms or imagery on tobacco product packaging; none of these countries explicitly prohibit flavours in e-cigarettes.

The definition of flavour varies across policies restricting flavoured tobacco products. Some definitions are based on the presence of distinct or noticeable sensory effects (taste and aroma); others refer to additive agents or ingredients, without
Djarum maintained the same filter and tobacco formulation for these exempted products. Following the tobacco ban in the USA, variants of the exempted products, and lure users to switch to products covered, such as exclusion of waterpipe tobacco and cigars, limiting the scope of a policy with respect to the tobacco products in the USA shortly after the ban of flavours in cigarettes.40 Switching between tobacco products was seen with adolescents found on packaging of cigarettes, smokeless tobacco, little cigars ‘Velvet Fusion Blast’, and ‘Crystal Blue’; it is ambiguous as to sensation other than tobacco-fruit, food, beverage or spice, but that denotes a taste, aroma or aging that includes a descriptor that does not directly name a constituents.10 Throughout the world, tobacco companies have introduced ‘concept flavours’—tobacco products with packaging that includes a descriptor that does not directly name a fruit, food, beverage or spice, but that denotes a taste, aroma or sensation other than tobacco-flavoured—such as ‘Ibiza Sunset’, ‘Velvet Fusion Blast’, and ‘Crystal Blue’; it is ambiguous as to what these might taste or smell like. Concept flavours have been found on packaging of cigarettes, smokeless tobacco, little cigars and e-cigarettes.

The presence of flavour terms and images on tobacco product packaging can potentially contribute to the appeal of tobacco products,35 which in turn can influence use.36 37 Restricting the use of images, colours and text that connote flavours and potentially mislead consumers can minimise loopholes that may be exploited by the tobacco industry. Restrictions should be inclusive of flavour capsules and images of capsules that can communicate less harm to users, especially adolescents and youth.36 37 Tobacco industry internal documents reveal how tobacco companies manipulated pack colours and designs to influence the perception of flavours and taste of tobacco products and potentially encourage uptake of smoking.38 Flavoured tobacco policy restrictions should address the product, its packaging and marketing to be maximally effective at reducing appeal. Although we did not include Thailand and South Korea in this review because they do not have policies to restrict flavours, it is noteworthy that they do not allow flavouring terms and images on packaging. Canada does not allow flavouring terms and images on e-cigarette packaging.

We recommend prohibiting the sale and marketing of flavours across all tobacco products to minimise the possibility of consumers substituting one product for another and to prohibit manufacturers exploiting gaps in a partial flavour ban.39 Switching between tobacco products was seen with adolescents in the USA shortly after the ban of flavours in cigarettes.40 Limiting the scope of a policy with respect to the tobacco products covered, such as exclusion of waterpipe tobacco and cigars, may present opportunities for the industry to market flavoured variants of the exempted products, and lure users to switch to these exempted products. Following the tobacco ban in the USA, Djarum maintained the same filter and tobacco formulation for its clove cigarettes and simply changed the wrapper, thereby changing its qualification from a cigarette to a cigar; this move effectively circumvented the cigarette flavour ban.41

The methodology used in this policy review has some limitations. Although a comprehensive review of policy data bases was undertaken, relevant documents using different search terms or languages may have been missed. Also, we reviewed enacted national-level flavour policies; it is important to note that subnational jurisdictions including states, provinces and cities have implemented a range of flavour restrictions that are beyond the scope of this review, and there is likely a lot to learn from that accumulated experience. Future research could examine the implementation of these policies, and any actions tobacco companies are taking to undermine them, to make recommendations to other countries interested in acting in this policy domain.

Comprehensive policy restrictions on the sale and marketing of flavoured tobacco products should be inclusive of: menthol flavours; tobacco products made partly or completely of tobacco leaf, as seen in Brazil, Ethiopia, Uganda, Senegal, Niger and Mauritania; a definition of flavours that incorporates both characterising and concept flavours and flavour capsules and the prohibition of flavour terms or images on tobacco packaging as well as marketing materials. Policies should be structured in a manner that governments are not put in a position to prove that a sensation, taste or aroma other than tobacco-flavoured is characterising (that is, that it can be named as a known food or flavour). As long as the sensation, taste or aroma is distinguishable (perceived by the sense of taste or smell) as being something other than tobacco-flavoured that should be sufficient. National and regional policies should not include preemption clauses and should include explicit anti-preemption language to unequivocally authorise states, provinces and localities to enact stronger restrictions than those nationally. Eliminating flavoured tobacco products has the potential to reduce the appeal, initiation and continued use of tobacco products and the subsequent harms that result from their use.142 This may also prevent consumers from being misled about the relative harm of flavoured tobacco products.

Countries considering to adopt and implement flavoured tobacco policies can learn from and build on the strengths and challenges posed by existing policies. Policies prohibiting the sale of flavoured tobacco products across a broad range of products as well as restrictions on flavour descriptors (text and images) on packaging, will serve to complement other efforts to reduce the appeal of tobacco products.

What this paper adds

▶ Bans or restrictions on flavours in tobacco products have the potential to reduce the appeal and use of tobacco products. As of 2019, 11 countries and the European Union have enacted legal restrictions on the sale of flavoured tobacco products. We explored the similarities and differences between these policies.
▶ Similarities include aspects of the policy rationale and terms used. Differences include tobacco products covered, whether menthol is prohibited and having explicit restrictions on the use of flavour descriptors and images on tobacco packaging.
▶ Existing policies could be strengthened by prohibiting all flavours—including menthol and ‘concept’ flavours (products with names that do not explicitly identify a flavour such as ‘Purple Blast’ or ‘Ibiza Sunset’) —as well as having explicit restrictions on descriptors, images and colouring on packaging that may be perceived as a flavour, sensation, taste or aroma.

Acknowledgements We would like to thank Kaityn Donley and Liz Candler of the International Legal Consortium at the Campaign for Tobacco-Free Kids; Rob Cunningham at the Canadian Cancer Society who provided a legislative overview of flavour policy amendments in Canada and NaszoI Kambembo at the Institute for Global Tobacco Control who contributed to the design of the figure illustrating the
References


