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International consensus: Ban on or regulation of all tobacco additives



WHO Framework
Convention on
Tobacco Control
(FCTC)
Articles 9 and 10

Partial guidelines for implementation of Articles 9 and 10 of the WHO FCTC



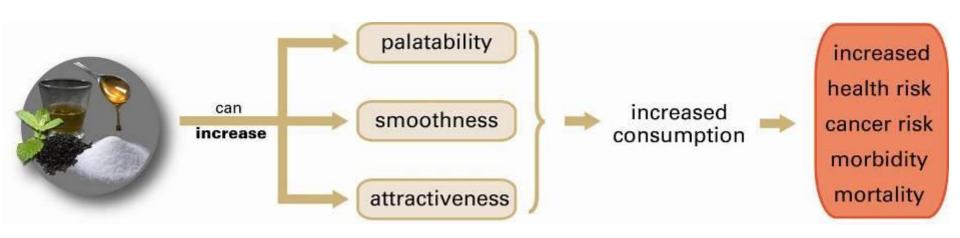


More than 600 additives are used in cigarette production

"Ingredients are indeed used to make cigarettes more palatable, and to reduce harshness and irritation."

(House of Commons Health Committee, Memorandum by BAT

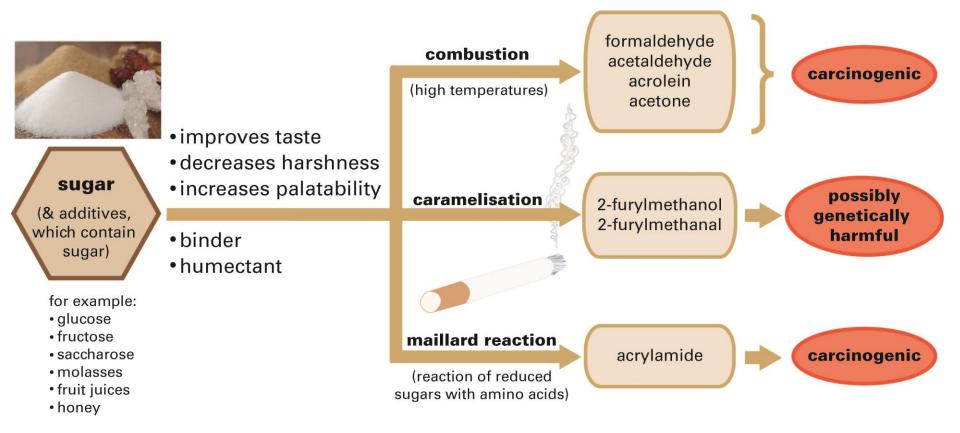
"The Tobacco Industry and the Health Risks of Smoking", 1999)







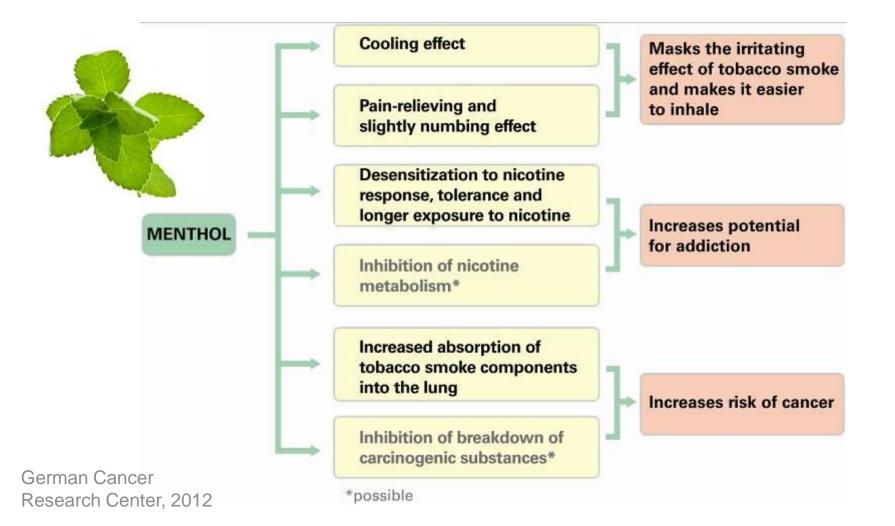
Sugars







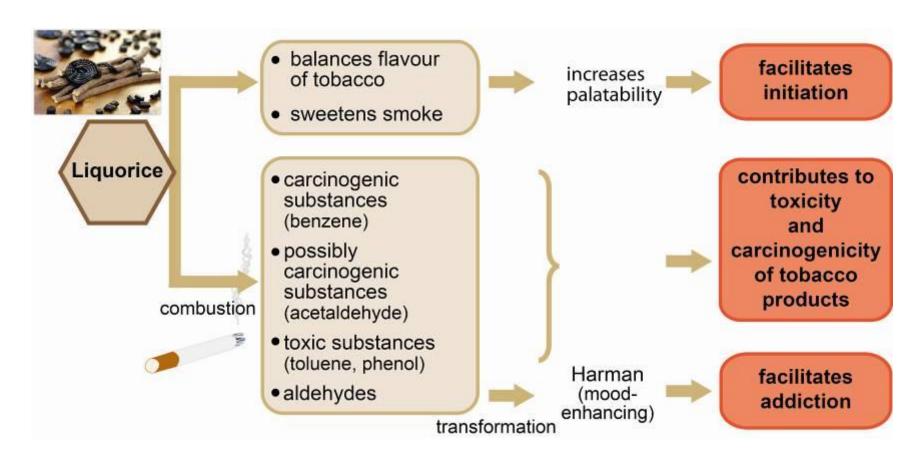
Menthol







Liquorice







Additives without flavour

binders
 (guar gum: combustion → carcinogenic substances)

humectants (moisturing agents)
 (glycerol, sugar: combustion → carcinogenic substances)

colouring agents
 (azo dyes: tartrazine (yellow): carcinogenic)







Tobacco products with characterising flavours







Only a small market!





Big market: Mix of many additives

- flavours in very low amounts
 "Ingredients are indeed used to make cigarettes more
 palatable, and to reduce harshness and irritation." (BAT,1999)
 facilitation of initiation and maintenance of smoking
- interaction and synergistic effects of additives
 mixture of small amounts of several additives can have
 similar effects as bigger amounts of single additives
- many additives produce carcinogenic substances on pyrolysis:
- → no harmless threshold levels for additives









New technologies



- enhance attractiveness
- capsule can be filled with any additive

Excerpts from US patent No. 7878962 (Karles et al., Philip Morris)

Suitable flavors or flavorings include, but are not limited to, menthol, mint, such as peppermint and spearmint, chocolate, licorice, citrus and other fruit flavors, gamma octalactone, vanillin, ethyl vanillin, breath freshener flavors, spice flavors such as cinnamon, methyl salicylate, linalool, bergamot oil, geranium oil, lemon oil, ginger oil, and tobacco flavor. Other suitable flavors may include flavor compounds selected from the group consisting of an acid, an alcohol, an ester, an aldehyde, a ketone, a pyrazine, combinations or blends thereof and the like. Suitable flavor compounds may be selected, for





What should be done?

Ban of all additives that may enhance the palatability, smoothness and attractiveness of tobacco products

Why?

- to protect youth from initiation
- to support smokers to quit smoking





What should be done?

Ban of all additives that are carcinogenic in unburnt or burnt form

Why?

- to protect consumers
- to reduce morbidity and mortality





What should NOT be done?

Set maximum levels for any additives

Why?

- no reliable methods to define a threshold level for distinctive taste
- many interactions between additives with synergistic effects on palatability, smoothness and inhalation





Summary

 ban is needed on additives that enhance palatability, smoothness and attractiveness of tobacco products

 ban is needed on additives that are carcinogenic in unburnt or burnt form

 manufacturers and importers must prove that any additive they want to use is harmless