



Improved monitoring of the disease burden attributable to substance use

SMOKING ATTRIBUTABLE BURDEN

Assessing the contribution of smoking to the disease burden in Belgium, 2013-2020

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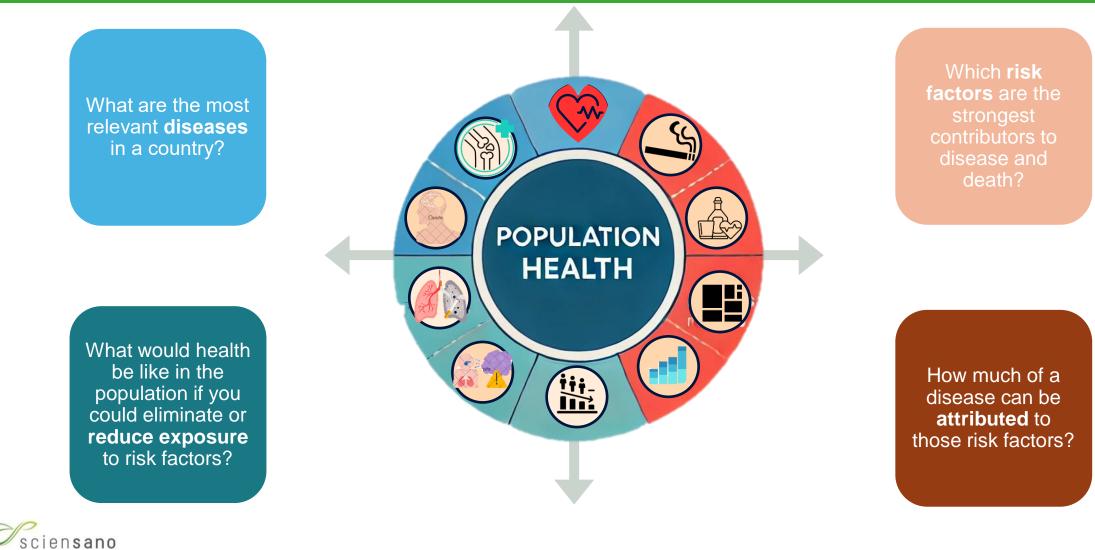


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Burden of disease





Burden of disease

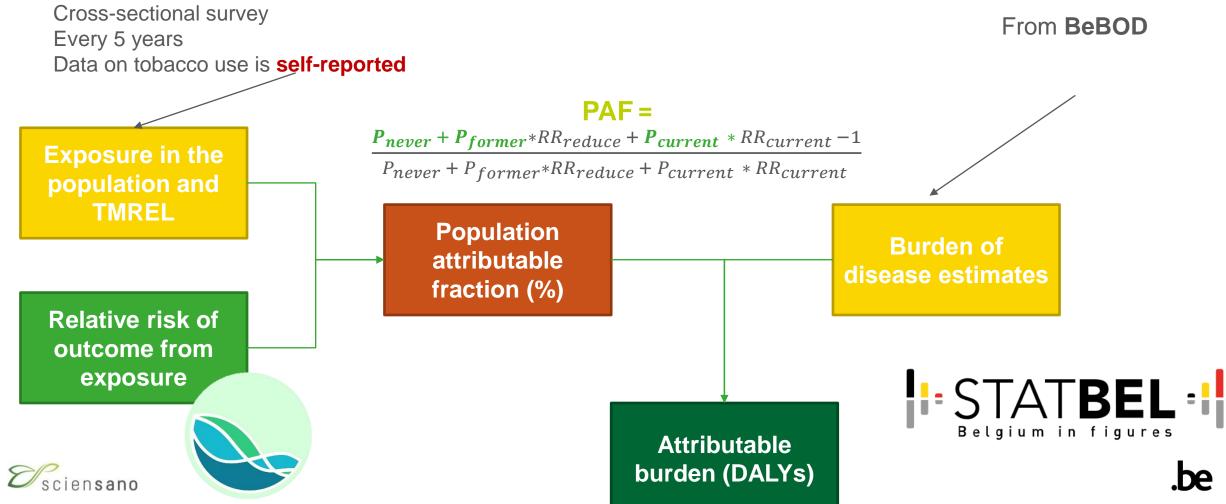


Attributable burden of substance use in Belgium

- Tobacco and alcohol use are major contributors to death, disability, healthcare and social costs worldwide
- Existing burden estimates are not tailored to the Belgian context
- No monitoring mechanisms currently for tracking the burden of disease attributable to substance use in Belgium

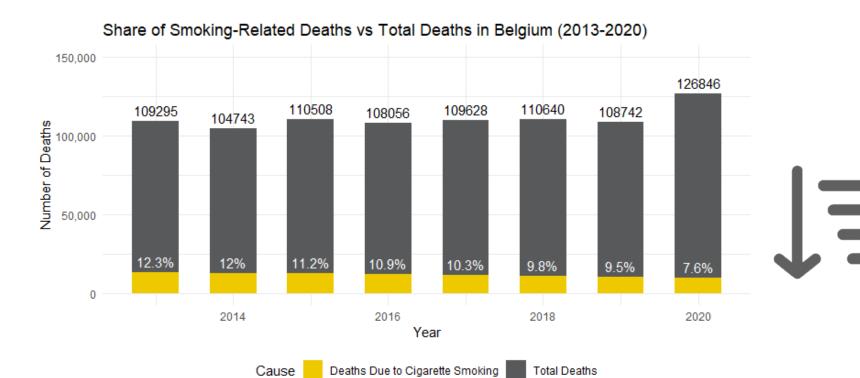
Attributable burden roadmap comparative risk assessment

Belgian Health Interview Survey



Smoking-related deaths are decreasing over time





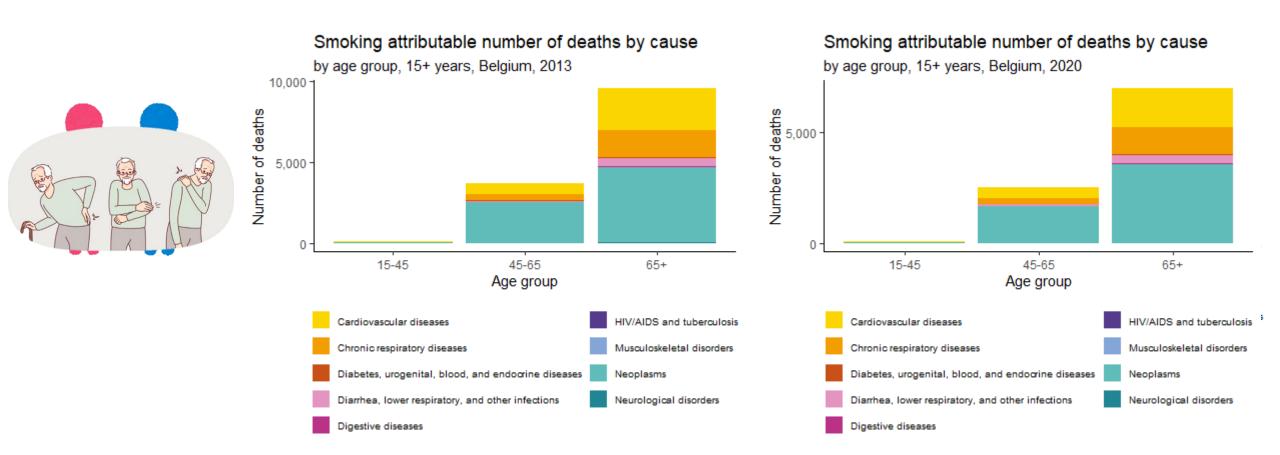
Smoking-related deaths :

- 2013: 13,469
 deaths (PAF = 12,3%)
- 2020: 9,598 deaths (PAF = 7,6%)



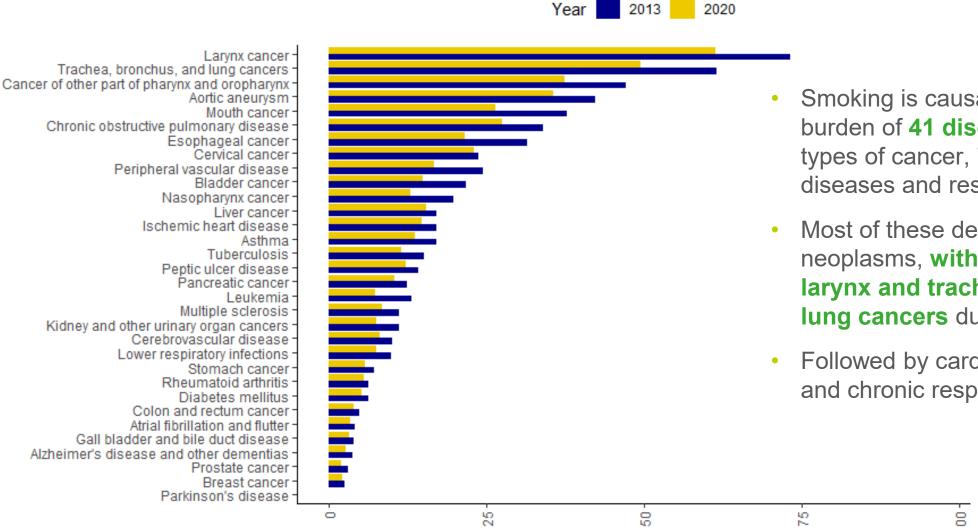
Most smoking-related deaths occur in males, and mainly in old age







Tobacco use remains a leading contributor to cancer deaths among both gender



PAF (%)

- Smoking is causally linked to the burden of 41 diseases including 19 types of cancer, 7 cardiovascular diseases and respiratory diseases
- Most of these deaths are due to neoplasms, with around half of all larynx and trachea, bronchus, and lung cancers due to tobacco use
- Followed by cardiovascular diseases and chronic respiratory diseases

Strengths and limitations

Strengths

- Robust data from a nationally representative sample
- Modelling strategy for the modelling of exposure data
- Strategy to identify and quantify sets of ROP
- Use of local data to understand the impact of smoking-related deaths in Belgium and to inform stakeholders to drive the focus :
 - Share of the deaths due to cigarette smoking (avoidable)
 - Ranking of smoking-related deaths

Limitations

- Exposure data are **self-reported**
- Modelled exposure data on repeat crosssectional surveys
- RR are **not age or sex-specific** (under or over-estimation of the burden)
- Changes in tobacco products (e.g., ecigarettes) are **not addressed**, which could affect the overall burden and trends in smoking-related diseases



Take home message

Despite a decrease in smoking-related deaths in Belgium, tobacco use continues to be a **major public health challenge**, particularly among men. Smoking continues to impose a persistent burden on population health, with specific cancers, such as larynx and lung cancer, being major contributors. There is a critical need for **ongoing monitoring and evaluation of tobacco policies**, alongside **targeted prevention strategies** to further reduce the impact of smoking-related diseases.



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