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D 3.9 Sugar-sweetened beverage consumption among adolescents in the European Countries

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Executive Summary

The policy brief is based on current research literature on intake of sugar-sweetened beverage (SSB) consumption, and associated inequalities, among adolescents in the European countries. It provides the most recent data on prevalence and trends in SSB consumption based the WHO Europe Childhood Surveillance Initiative (COSI) and the Health Behaviour in School-aged Children (HBSC) study. The policy brief highlights cross-national variation in policy actions addressing SSBs and underlines the need for evaluating national implemented policy interventions targeting the adolescent population.



Introduction

Deliverable description

The deliverable is a policy brief based on a summary of research on adolescents' intake of sugar-sweetened beverages (SSBs) and identifies cross-national differences in relevant interventions aiming to reduce SSB intake.

Objective of deliverable

The objective of the deliverable is to present the status of research on prevalence and trends in SSB consumption, and related socioeconomic differences, based on current research literature and existing databases (COSI and HBSC) and effective strategies targeting adolescents, in a policy relevant format.

Background

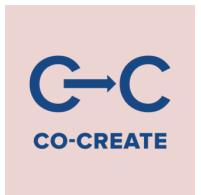
In deliverable D3.9, we present the status on current research literature on young people's sugar-sweetened beverage consumption (SSB), and related socioeconomic differences, based on two datasets on European adolescents; the WHO European Childhood Obesity Surveillance Initiative (COSI) and the WHO Health Behaviour in School-aged Children (HBSC) study. Further, we focus on effective strategies for targeting adolescents' SSB consumption, with basis in research literature and analysis of data from COSI and HBSC. Evaluation of policy strategies addressing young people's SSB consumptions were highlighted and linked to CO-CREATE's current work on developing tools aiming to evaluate the policy context in which prevalence and trends in SSB consumption develops.

The WHO European Childhood Obesity Surveillance Initiative (COSI) provides data from children aged 6-9 year from national representative samples from the European countries. Children's SSB consumption and parental socioeconomic status, are based on parental reports. The data collection was first conducted in 2007, and has been repeated every three years, in an increasingly number of countries.

The WHO Health Behaviour in School-aged Children (HBSC) study has been conducted in national representative samples of adolescents aged 11, 13 and 15 years since 1985, with data collection every fourth year, currently in more than 50 countries from Europe and Canada. The HBSC survey provides self-reported data.

Description of activities

Data from COSI and HBSC study suggest that adolescents' SSB consumption varies greatly across the European countries. However, trends of decline are seen in all European regions, with widening socioeconomic differences observed in some countries. The heterogeneity in prevalence in adolescent SSB consumption may be linked to differences in implemented nutrition policy strategies targeting adolescents. The policy brief points towards actions that are needed to evaluate



adolescents SSB consumption in the context of policy actions. Research based on appropriate study design is needed to increase the evidence base on effective public health measures targeting adolescents' SSB consumption.

Results

The final policy brief is presented below

POLICY BRIEF

April 2022



Sugar-sweetened beverage consumption among adolescents in the European countries

Reducing adolescents' sugar-sweetened beverage (SSB) consumption is a public health priority in European countries. The observed cross-country differences in prevalence and trends in SSB consumption may be explained by heterogeneity in implemented policy actions targeting adolescents. Implemented policy actions should be evaluated in a national context as well as in an international comparative perspective.

Background

WHO recommends children and adults to restrict consumption of free sugars to less than 10% of total daily energy intake (and preferably less than 5%) (1). High sugar intake during childhood and adolescence may contribute to excessive weight gain (2,3), dental caries (4) and increased cardiometabolic risk (3). Several reviews conclude that intakes of total and added sugars are high in many European countries, especially in children, and point to sugar-sweetened beverages (SSB) as a major contributor to added sugar intakes (5,6). Reducing young people's SSB consumption is thus a public health priority in the European countries. In this work, monitoring children and adolescents' SSB consumption in the context of implemented policy actions are considered key elements.

Prevalence and trends in SSB consumption

The WHO Europe Childhood Surveillance Initiative (COSI) provides parental reported data on children's (age 6-9 years old) SSB consumption, using data collected in several countries in the European region. The most recently published COSI data (2015/2017) indicate that children's SSB consumption varies greatly across the European regions, with proportion of children consuming SSBs every day ranging from 0.4% in Ireland to 15.2% in Montenegro (7). Overall, SSB consumption seems to be higher among children living in Southern and Eastern, compared to Northern, European countries.

The Health Behavior in School-aged Children (HBSC) study is a WHO collaborative cross-national study and provides self-reported survey data on health and health behaviors, and their social environments, among boys and girls aged 11, 13 and 15 years old, from more than 50 countries. Data from the most

recent HBSC survey (2017/2018) (8) indicate that daily SSB consumption among adolescents varies greatly across the European countries, ranging from 2% in Finland (11- and 13-year-old girls) to 37% in North Macedonia (15-year-old boys). Overall, SSB consumption was highest in Belgium (French) (29%), North Macedonia (29%) and Albania (28%), and lowest in the Nordic countries

Socioeconomic differences in SSB consumption

A study based on COSI data (2015/2017) suggest that children with lower parental education, as well as children living in families perceiving financial strain, are more likely to consume SSB on daily basis (9). The socioeconomic patterns seems to be quite consistent across the European regions.

As shown in the international HBSC report (8), adolescents' SSB consumption is associated with socioeconomic differences in less than half of the HBSC countries for boys, and almost two thirds for girls, and with the largest overall socioeconomic differences reported in Belgium. In most countries where socioeconomic differences were present, higher consumption was reported among the lowest socioeconomic groups. Some countries showed the opposite pattern for both boys (Georgia, the Republic of Moldova and Ukraine) and girls (the Republic of Moldova and the Russian Federation), where higher socioeconomic groups were more likely to report daily intake of SSB.

Trends of decline in SSB consumption

Despite heterogeneity in SSB consumption across the European countries, an encouraging trend of declined intake is observed in all European regions. During the 2002 – 2018, a decline in the proportion of daily SSB consumers was reported in Western and

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Southern (10) as well as Eastern (11) European countries. In Western/Southern Europe, the sharpest decline (relative reduction) was seen in Ireland, going from 37.4 to 5.7%, followed by England and Norway (10). Declines were observed also in Eastern European countries, with the largest reduction seen in Slovenia and the Russian Federation (11). In most Western/Southern countries, decline in SSB consumption were seen across socioeconomic groups (10). In the Eastern European countries, sharper decline was seen in higher versus lower socioeconomic groups, with widening differences seen in several countries (11).

Policy actions targeting SSB consumption

In the report “Ending childhood obesity” (12) and “Closing the gap in a generation” (13), WHO recommends a large set of actions to reduce SSB consumption and associated inequalities. Some examples are school-based nutrition education programs and food policies (e.g., reduced availability of SSBs and facilitated access to water), which are shown to be effective (14), particularly when they are combined with other policies (14, 15). Other population-based interventions, such as media campaigns, traffic-light-labelling, sugar tax or taxation of SSBs, are recommended as they are suggested to reduce SSB consumption (15,16). An increasing number of countries have put structural public health measures targeting SSB consumption on their policy agenda. Still, the extent of implemented policies varies greatly across the European countries, which may explain the observed heterogeneity in young people’s SSB consumption.

Action needed

Evaluation of policy actions at the national level and international comparisons of structural policy measures, may provide a better understanding of prevalence and trends in SSB consumption in the respective countries. Attention should be devoted to the countries who over the last decades have experienced the sharped decline in SSB consumption (e.g., Ireland, England and Norway), and to countries who despite low prevalence, experienced further reduction in SSB consumption. Likewise, a better understanding of the policy context in which extensive SSB consumption develops is needed. Detailed information on implemented national policy actions are accessible in the NOURISHING database (17). Furthermore, ongoing work (part of the CO-CREATE project) with benchmarking national policy actions, as well as developing a policy index for nutrition policies, may be valuable tool in this work. Lastly, population level interventions addressing adolescents’ SSB consumption should be accompanied by studies using appropriate study designs, with a particular focus on the long-term effect on SSB consumption as well as associated health and health inequalities.

ABOUT: CO-CREATE is led by the Norwegian Institute of Public Health and brings together 14 international research and advocacy organisations to work with young people to create, inform and promote policies for obesity prevention.

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