

# Identification of indicators for a WHO monitoring framework of the global oral health action plan

## Yassaman Karimi Jashni

Faculty of Dental Medicine and Oral Health Sciences

McGill University, Montreal

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#### Abstract.

**Introduction:** The World Health Organization (WHO) is developing a *Global Oral Health Action Plan* (GOHAP) which requires the integration of oral health care services into *Universal Health Coverage* (UHC). To track the progress of this GOHAP, a monitoring framework is required. Oral health and oral health care indicators play a critical role in this monitoring framework. This study was therefore conducted to identify oral health and oral health care indicators that can be used in a range of low-, middle- and high-income countries within the aforementioned framework.

**Methods:** A scoping review of the scientific literature was conducted as a primary step to identify existing indicators that have the potential to be used in the oral health monitoring framework. Then, a "long list of indicators "was created by integrating the results of this review with additional indicators identified through a parallel search of the grey literature and WHO databanks. Subsequently, a two-round Delphi process was carried out to reduce this "long list" to a "short list of indicators". A group of international experts participated in the survey and reached a consensus on the "short list of indicators". The survey results were then reported to the WHO for further consultations.

**Results:** The scoping review of the scientific literature identified 54 indicators among 83 articles covering a wide range (n=32) of countries and published between 1995 to 2021. The review of the grey literature and WHO databanks identified additional indicators. The combined list was reduced to 45 indicators, when entered in the Delphi process. The latter reduced the list to 40 indicators classified under five categories: oral health status, risk factors for oral health, UHC for oral health, governance, and evidence-informed policy.

**Conclusion:** This study has identified a list of indicators that could be potentially used to measure the integration of oral health care within UHC and general health care across a range of low-, middle- and high-income countries as a part of the WHO GOHAP.

#### Résumé.

Titre : Identification d'indicateurs pour un cadre de surveillance d'un plan d'action mondial de santé bucco-dentaire pour l'OMS

Introduction: L'Organisation Mondiale de la Santé (OMS) est en train de développer un Plan d'Action Mondial de Santé Bucco-Dentaire (PAMSBD) qui nécessite l'intégration des services de santé bucco-dentaire dans la Couverture Santé Universelle (CSU). Pour suivre les progrès de ce PAMSBD, un cadre de surveillance est nécessaire. Les indicateurs de santé bucco-dentaire et de soins bucco-dentaires jouent un rôle essentiel dans ce cadre de surveillance. Cette étude a donc été menée pour identifier les indicateurs de la santé bucco-dentaire et les indicateurs de soins bucco-dentaires qui peuvent être utilisés dans le cadre susmentionné, pour une rangée de pays à revenu faible, intermédiaire et élevé.

Méthodes: Une revue de la littérature scientifique a été effectué comme première étape pour identifier les indicateurs existants qui ont le potentiel d'être utilisés dans le cadre de surveillance de la santé bucco-dentaire. Ensuite, une « longue liste d'indicateurs » a été créée en intégrant les résultats de cette revue avec des indicateurs supplémentaires identifiés par une recherche parallèle dans la littérature grise et les banques de données de l'OMS. Ensuite, un processus Delphi en deux tours a été effectué pour réduire cette « longue liste » à une « courte liste d'indicateurs ». Un groupe d'experts internationaux a participé à l'enquête et est parvenu à un consensus sur la "courte liste d'indicateurs". Les résultats de l'enquête ont ensuite été communiqués à l'OMS pour des consultations ultérieures.

**Résultats :** L'examen exploratoire de la littérature scientifique a identifié 54 indicateurs dans 83 articles couvrant un grand nombre (n = 32) de pays et publiés entre 1995 et 2021. L'examen de la littérature grise et des banques de données de l'OMS a identifié des indicateurs supplémentaires. La liste combinée a été réduite à 45 indicateurs lors de son entrée dans le processus Delphi. Ce dernier a réduit la liste à 40 indicateurs classés en cinq catégories : état de santé bucco-dentaire, facteurs de risque pour la santé bucco-dentaire, CSU pour la santé bucco-dentaire, gouvernance, et politique fondée sur des données probantes.

Conclusion: Cette étude a identifié une liste d'indicateurs qui pourraient être potentiellement utilisés pour mesurer l'intégration des soins bucco-dentaires á la CSU et les soins de santé généraux dans une rangée de pays à revenu faible, intermédiaire et élevé, dans le cadre du PAMSBD de l'OMS.

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Alongside the manuscript which was prepared with the help of the aforementioned people, my thesis is reporting parts of a more complex project carried out by the WHO, which are currently ongoing. I would like to express my gratitude to the WHO for giving me the opportunity to participate in the phases of their project that are stated in this thesis. I would also like to thank the WHO team, the International Health Policy Programme Foundation (IHPP) team and the Global Informal Experts Group (GIEG) for their collaboration in the project phases stated in this thesis. I should also appreciate the assistance of Kimia Rohani with organizing the surveys in the "Lime Survey" online platform and analysing the results of the surveys.

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May the Brotherhood of Humanity Encircle the Earth, and Bring "Health" to All Nations.

#### Preface.

The student's contribution to this work:

The Manuscript "Evaluating the integration of oral health care within universal health coverage in low-, middle-, and high-income countries: a scoping review" is a review article (to be submitted to a peer-reviewed journal) included in this thesis. Its preliminary work and original preparation were done by Yassaman Karimi Jashni (the student). The role of the co-author Fatemeh Emari was to assist with reviewing the manuscript articles as the second reviewer and extracting data. The role of the co-author Martin Morris was to develop the search strategy for the review. The role of the co-author Dr. Paul Allison was recommending the original concept of the review, advising on study selection as the third reviewer, and revising and modifying the text of the draft manuscript.

This thesis reports the work that includes parts of a larger project directly linked with the WHO development of a Global Strategy on Oral Health, including a Global Oral Health Action Plan (GOHAP). The student's contribution to this work included the performance of the scoping review that contributed to an initial "long list" of approximately 120 indicators to be included in the GOHAP monitoring framework. The student then participated in a process to reduce that list to a list of 45 indicators to be included in the Delphi process. The student then participated in the development and testing of questionnaires for the two rounds of the Delphi process and analyses of the results of both rounds. The analyses included those reported in this thesis, plus qualitative analyses of open-ended questions in both rounds of the Delphi process. These qualitative analyses are not included in this thesis.

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## List of abbreviations.

WHO: World Health Organization

UHC: Universal Health Coverage

MDGs: Millennium Development Goals

SDGs: Sustainable Development Goals

**GNI:** Gross National Income

LMICs: Low- and middle-income countries

NCD: Non-communicable disease

FDI: Federation Dentaire Internationale

WHA: World Health Assembly

GOHAP: Global Oral Health Action Plan

GOHS: Global Oral Health Strategy

IHPP: International Health Policy Programme Foundation

GIEG: Global Informal Experts Group

#### 1. General introduction.

#### 1.1. Introduction.

Universal health coverage (UHC) is a health care program have been highlighted recently by the United Nations and the World Health Organization and is recognized as a principal component of the Sustainable Development Goals (1-3). These global schemes are designed to offer well-being and equity to populations to whom they are applied as one of their main objectives (2, 4). UHC was exclusively designed to concentrate on improving health and welfare. UHC has been defined as a program offering good quality health services globally to the population who need care without causing them financial hardship (1, 3, 5). The UHC benefits include health promotion, disease prevention, treatment, rehabilitation, and palliative care services and cover a broad scope of health issues (1, 3).

Recommendations have been put forward to integrate oral health into UHC and the general health care system to improve the oral health of the populations. Reports stated that in 2017, 3.5 billion people were suffering from oral diseases, mostly dental caries (6). Poor access to services that offer oral health care is one of the primary reasons the prevalence of oral diseases is increasing among the population in low- and middle-income countries (7). To promote the importance of enhancing oral health in communities, *The Lancet* published a series of papers in 2019 calling for the reform of oral health care services and the revision the related policies (8, 9).

Following this, in 2021, the World Health Organization (WHO) proposed a resolution on oral health that promoted the delivery of oral health care services and the development of monitoring systems (10). This resolution also declared the goal of oral health care being delivered as a part of UHC services (10). To achieve this aim, this declaration called for drafting a global strategy. The global strategy is expected to effectively translate into an *Oral Health Action Plan* in addition to a framework to track the improvements in controlling oral diseases (1, 11).

In the context of general health, monitoring frameworks exist in countries to oversee UHC implementation in their health care systems (12). These frameworks measure the UHC progress using a range of indicators that could vary among countries based on their socioeconomic status (12). For instance, indicators exist to measure the health care progress in two important UHC contexts: access to health services and financial risk protection (1, 3). Additional indicators

exist that measure UHC improvements in the prevention and treatment of infectious diseases, non-communicable diseases, and reproductive health scopes (3, 13).

#### 1.2. Rationale.

To put the aforementioned *Oral Health Action Plan* into effect, the integration of oral health care services into UHC needs to be accelerated. Establishing a monitoring framework is also crucial to assess the progress of integrating oral health care into UHC and general health care. Furthermore, oral health and oral health care-related indicators are required as part of such a framework. Among existing oral health and oral health care indicators, some may be relevant for such a framework. Therefore, specific and detailed oral health and oral health care indicators must be identified as a preliminary step towards setting up the framework to monitor the integration of oral health care into general medical care and UHC. Furthermore, these indicators should be applicable in a wide range of low-, middle- and high-income countries and need to apply to different states of integration into UHC and general medical care.

Given this context, the study reported in this thesis, we reviewed the literature to identify existing oral health and oral health care indicators that have the potential to be used as principal measures in the oral health care monitoring framework. This review was conducted as an initial step in outlining the future *Global Oral Health Action Plan*. The results of the review were then used as the basis of a process to achieve consensus on a list of principal indicators among a group of international experts.

## 1.3. Aim.

The aim of the work reported in this thesis was to identify oral health care measures that indicate the extent to which oral health care is integrated within UHC and general health care across a range of low-, middle- and high-income countries.

#### 1.4. Objectives.

1. To perform a scoping review to identify indicators that can be used to illustrate the degree to which oral health care is integrated within general health care and UHC across a broad range of low-, middle-and high-income countries.

2. To use the results of the scoping review as the list of potential indicators to develop a questionnaire and conduct a survey using the Delphi technique to reach a consensus on the list of leading indicators among a group of international experts.

#### 2. Literature review.

In this section, the literature was extensively reviewed, and the information was reported according to its relevance to the topic and aims of this thesis.

## 2.1. The United Nations Millennium Development Goals.

In September 2000, the *United Nations Millennium Declaration* was signed by the *United Nations Member States* and targeted to set 8 strategic goals that were expected to be achieved by 2015 (14, 15). These goals were mainly relevant to health. The *United Nations Millennium Development Goals* (MDGs) were adopted from this declaration (4, 15).

The health-related goals were to eradicate extreme poverty and hunger (goal 1); reduce child mortality (goal 4); improve maternal health (goal 5); combat HIV/AIDS, malaria, and other diseases (goal 6); ensure environmental sustainability (goal 7); and develop a global partnership for development (goal 8) (14). These goals concentrated on enhancing immunization coverage, child and maternal mortality, treatment of communicable diseases, access to safe drinking water, and access to medicine and chronic disease treatments (4). MDGs were replaced with *Sustainable Development Goals* in 2015.

## 2.2. Sustainable Development Goals.

Sustainable Development Goals (SDGs) were developed from MDGs and were introduced in 2015 (2). SDGs included a set of 17 fundamental goals and 169 targets, which were related to health either directly or implicitly (16). SDGs were to be applicable in low- and middle-income countries (LMICs) to enhance welfare and equity in all population groups (17).

The World Bank divides economies into low-, lower-middle-, upper-middle-, and high-income countries according to their gross national income (GNI) per capita in US dollars (18). In 2021, low-income countries were defined as economies with a GNI per capita of \$1,085 or less (19). Middle-Income Countries comprise a diverse group of economies by size, population, and income level (20). Lower middle-income countries were defined as those with a GNI per capita between \$1,086 and \$4,255. The upper-middle-income countries had a GNI per capita between \$4,256 and \$13,205. High-income countries were those with a GNI per capita of \$13,205 or more (19).

Goal 3 mainly concentrated on health, with 13 targets, and was defined as "ensure healthy lives and promote well-being for all at all ages" (17).

Target 3.8 was defined as "achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all" (17). The two indicators of target 3.8 were "coverage of essential health services" and "proportion of population with large household expenditures on health" (21, 22).

The World Health Organization (WHO) resolution on SDGs in 2016 called for action and urged member states to formulate policies to expedite achieving the SDGs. This resolution also restated that Universal Health Coverage was one of the SDG targets (2). Drafting this resolution resulted in developing the policies to achieve Universal Health Coverage in countries.

### 2.3. Universal Health Coverage.

Universal Health Coverage (UHC) is a form of health care in which "all individuals and communities receive the health services they need without suffering financial hardship. It includes the full spectrum of essential, quality health services, from health promotion to [disease] prevention, treatment, rehabilitation, and palliative care across the life course" (3). The principal components of UHC are "the full spectrum of good-quality, essential health services according to need" and "protection from financial hardship, including possible impoverishment due to out-of-pocket payments for health services", which offers benefit to the entire community (12). Countries will ease access to health services based on their population needs and available resources (5). Given these definitions, one could readily state that oral health care services should be defined as essential services in the UHC system.

#### 2.4. Oral health.

#### 2.4.1. Oral health definition.

Using existing definitions (23, 24), oral health could be defined as "being multidimensional in nature, including physical, psychological, emotional, and social domains that are integral to overall health and wellbeing. Oral health is subjective and dynamic, enabling eating, speaking, smiling, and socialising, without discomfort, pain, or embarrassment" (9). Oral health is a valuable index that is correlated to general health and welfare, as well as the quality of life (25).

Even though oral diseases are primarily preventable, they are highly prevalent throughout the lifespan.

## 2.4.2. Epidemiology of oral disease.

Oral health diseases are highly prevalent, effecting 3.5 billion people globally (6). Oral health diseases include conditions such as dental caries, periodontal diseases, oral cancers, oro-dental trauma, orofacial clefts, and Noma (7). Within those, permanent teeth caries is the most common non-communicable disease (NCD), affected 2.4 billion people globally (35% of the world population) in 2010 (26).

The lifetime prevalence of dental caries decreased among 12-years-old children over the past forty years in high-income countries (27). However, there was no change in the overall global burden of caries in both primary and permanent teeth between 1990 and 2010 (26, 28, 29). Similarly, the age-standardized prevalence of periodontal disease remained unchanged between 1990 to 2010 (30). Nonetheless, the prevalence of severe tooth loss decreased between 1990 to 2010 (31). Besides these very common oral health problems, oral cancers are among the 15 most common cancers globally, and have the highest incidence among all cancers in some countries in South Asia (32). Furthermore, oral diseases and other major NCDs have common risk factors, including tobacco and alcohol use and a high-sugar diet (7).

Looking beyond the risk factors of oral and other NCDs towards their determinants, many studies document a strong association between socioeconomic status within populations and the prevalence and severity of oral diseases (25). For instance, low educational background is associated with experiencing caries (33) and lower socioeconomic position is associated with dental caries (33, 34). Further studies have identified associations between poor socioeconomic status and poor periodontal health and oral cancer (35, 36) and between poverty in early life and having unsound teeth (37).

Moreover, the burden of oral diseases has a significant impact on the individual's quality of life, causing them to suffer orofacial pain as well as reducing their productivity at school and work. Children experience persistent and severe pain inflicted by untreated caries (38-40). Several studies have shown dental pain to be a lifelong problem for most children from low-and middle-income countries (41-44). Also, school performance can be negatively impacted by dental problems, which can cause students to miss class time (45-47). Besides, orofacial pain is common in adults and is one of the leading causes of decreased quality of life and

satisfaction globally (48). Studies show that dental conditions negatively affect employment status and productivity in adults. It was estimated that the social cost of dental problems resulted in losing productivity costs of CAN\$1 billion in Canada and AUS\$660 million in Australia annually (49, 50). In older age, oral diseases could lead to experiencing pain, problems with eating, poor nutrition, and issues with using dentures (51-53).

#### 2.4.3. Oral health care.

Oral health care-related expenses have a significant role in catastrophic health costs and outof-pocket payments (54). Expenses are one of the main access barriers to receiving oral healthcare (54). The economic burden of oral diseases comprises direct, indirect, and intangible costs, including treatment costs and productivity loss (55). This situation may increase the risk of poverty and financial hardship for people in low-, middle- or high-income countries

Taking Canada as an example, in 2009, the *Canadian Health Measures Survey* reported that dental care costs were the reason why 17.3% of the population avoided visiting a dental professional in Canada (56). In addition, dental care expenditure led 16.5% of the population to decline the recommended dental care (56, 57). Costs were the reason that in 2016, approximately 28% of Canadians skipped dental care in a one-year period, as reported in the *Commonwealth Fund International Health Policy Survey* (58). High-income families or those with private insurance received more care compared low-income families and those without insurance (56). In Canada, most of the population relies on private insurance or out-of-pocket payments to afford dental care access (59). *Denticare*, *Denticaid*, and the *Federal Care Program* are insurance coverage programs that have been proposed to increase the affordability of dental care in Canada (60, 61). Recent reports noted that 64.6% of Canadians had dental care insurance in 2018, which was less than the 68% coverage rate in 2009 (56, 62).

## 2.4.4. Oral diseases and health policy.

Despite being highly prevalent and their impact in terms of cost, symptoms and functional problems, oral diseases remain a neglected scope of health care and are rarely given priority in health policy (63). As a result, oral health has been isolated from health policy mainstream evolutions. Currently, the westernised dental care delivery model and clinical preventive policies fail to tackle the global burden of oral diseases, as they aim at high technologies and treatments which are not affordable in low- and middle-income countries (64). Therefore, as dental care does not address the needs of most of the population, an alternative approach is

required to respond to the radical challenge of oral diseases (65). There is a need to shift the focus from the current clinical approaches towards developing policies that aim at social determinants of health and oral disease risk factors (66).

Therefore, in recent years much attention has been devoted to adding oral healthcare into healthcare policy systems such as UHC, with the aim of offering accessible and affordable services worldwide. In this regard, strategies have been mapped by different organizations targeting the integration of oral healthcare into general healthcare systems.

## 2.5. The Lancet Commission.

In 2019, *The Lancet* series on oral health called for a revision of dental health care services and policies to provide services that are more accessible for a broader number of people especially targeting low- and middle-income countries but also including many high-income countries (8). One of the recommendations to enhance current dental care is the reform of oral healthcare systems.

Following this article, in 2020, a *Lancet Commission* was created to develop different plans for this purpose, such as delivering high-quality, evidence-based treatment, responding to the diverse needs of local populations, and promoting oral health equity (67).

## 2.6. World Dental Federation report.

The World Dental Federation (Federation Dentaire Internationale; FDI) published the "FDI Vision 2030" report in 2021 to provide dental professionals with insight into optimal oral health delivery by the year 2030. It highlighted the importance of integrating oral services into general healthcare in every country, which will result in more efficient prevention and management of oral diseases. This report also emphasized that the active collaboration between oral health professionals and other health workers will be the key element to facilitate delivering sustainable and person-centred healthcare services (68). In addition to the *Lancet series*, this report also highlighted the importance of providing accessible and affordable oral health care by making progressive changes in oral health care services.

## 2.7. World Health Organization (WHO) Collaboration.

In 2021, WHO published a report on the oral health resolutions proposed at the 74th World Health Assembly (WHA74 resolution series) (10, 69). The WHA74.5 resolution mentioned

topics such as the global burden of oral diseases; the effect of oral health on quality of life and general health condition; and the existing inequalities among countries. It urges member states to address the main risk factors for oral disease, integrate oral health into the countries' national policies, reinforce oral health service delivery, and facilitate the advancement in monitoring systems (69).

According to this resolution, oral health needs to be fully integrated into the NCD agenda and oral health services should be delivered as part of the UHC. This resolution also requests the WHO director-general to develop "a draft global strategy, in consultation with the Member States, on tackling oral diseases, aligned with the Global action plan for the prevention and control of non-communicable diseases 2013–2030" by 2022 and "to translate this global strategy, by 2023, into an action plan for public oral health, including a framework for tracking progress with clear measurable targets to be achieved by 2030" (69). To take action on the abovementioned requests, a collaboration was set up by the WHO to contribute to developing the monitoring framework of the Global Oral Health Action Plan.

## 2.8. Health monitoring frameworks.

WHO aims to meet the target of the *Thirteenth General Programme of Work 2025* to provide one billion more people with UHC services and reach the ultimate goal of the "right to the highest attainable standard of health" (3, 70). Therefore, it is essential to monitor health service financial protection and coverage within and between countries in this context of UHC. The monitoring framework would provide WHO with the data required to measure the achievement of UHC-related goals by 2030, which include providing more than 80% of essential service coverage for the global population; and offering complete financial protection from catastrophic health expenditure for the global population (12, 71). Monitoring progress in the implementation of UHC in countries should be part of their routine health progress evaluations. This implementation can be monitored by establishing a framework that includes various social, economic, and coverage elements (12).

Based on SDG targets, the implementation of UHC should be monitored using two key indicators: (21, 22)

• SDG 3.8.1: "Coverage of essential health services (defined as the average coverage of essential services based on tracer interventions that include reproductive, maternal, new-born and child health, infectious diseases, non-

- communicable diseases and service capacity and access, among the general and the most disadvantaged population)"
- SDG 3.8.2: "Proportion of population with large household expenditures on health as a share of total household expenditure or income".

These two indicators were used by WHO and the *World Bank* to develop a framework for monitoring progress in implementing UHC (*WHO/WB monitoring framework*) (72). This framework included four main categories as key indicators to measure the coverage of 14 critical health services in different countries. These categories and services were: (72)

- Reproductive, maternal, new-born, and child health
  - o family planning
  - o antenatal and delivery care
  - o full child immunization
  - o health-seeking behaviour for pneumonia
- Infectious diseases
  - tuberculosis treatment
  - HIV antiretroviral treatment
  - o use of insecticide-treated bed nets for malaria prevention
  - o adequate sanitation
- Non-communicable diseases
  - o prevention and treatment of raised blood pressure
  - o prevention and treatment of raised blood glucose
  - o tobacco (non-)smoking
- Service capacity and access
  - basic hospital access
  - health worker density
  - o health security: compliance with the International Health Regulations

The WHO/WB monitoring framework is used as the basic framework to measure the progress of UHC implementation among health systems in different countries. Countries provide healthcare services based on the needs of their populations. These services could differ from one country to another depending on their geographic or socioeconomic status. Therefore, most countries slightly adjusted this framework to limit measuring the progress within the desired scopes of their healthcare systems (73-77).

A number of countries have made these adjustments to their monitoring frameworks to assess their progress towards UHC, or lack thereof. As a middle-income country, South Africa used the aforementioned coverage indicators to monitor its progress towards UHC. The indexes of some of these indicators were adjusted based on the availability of data in their country (76). Similarly, as a low-income country, Ethiopia modified these indicators in order to use its data sources and information (77).

As another example, based on their national health context and the availability of data, Iraq included indicators related to "maternal and child health" and "environment" in its monitoring framework to assess the country's progress towards UHC (73). Another example is the monitoring framework in Bangladesh, which estimated the trends in "prevention", "treatment", and "financial risk protection" indicators to measure the health system's progress towards UHC (74). In these examples, the countries selected some indicators and did not use all of them, which is a noteworthy observation.

Other frameworks have been established based on the health-related SDGs to monitor the progress of UHC implementation in a range of countries (75, 78, 79). These frameworks classify the indicators according to the results chain of UHC, including the health system's input, output, outcome, and impact domains (79). The Western Pacific Health System Performance Framework is an example of these frameworks. It covers indicators in various fields of health systems (Figure 1. The Western Pacific Health System Performance Framework) (75).

Inputs and processes	Outputs	Outcomes	Impacts		
Health sector  Governance Health financing Health workforce Service delivery Medicines and technologies Health information and surveillance systems Other sectors Governance and policies Financing Infrastructure and technologies	Health financing  Out-of-pocket spending Government spending in health Health service delivery Availability and readiness Effectiveness and safety Accessibility System efficiency Peoplecenteredness and integrated services Health-related interventions and social determinants Education	Household health- related expenditure  Catastrophic expenditure  Health service coverage Promotive Preventive Curative Rehabilitative Palliative Lifestyle factors and practices Health literacy Substance use Physical activity Nutrition Safe practices	Household and societal impact  Poverty impact Well-being Health security  Population health Life expectancy Mortality Morbidity Disability  Health system Quality Efficiency Equity Accountability Resilience		

<ul> <li>Housing</li> <li>Employment</li> <li>Food and nutrition</li> <li>Infrastructure and environmental interventions</li> </ul>	
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**Figure 1.** The Western Pacific Health System Performance Framework [Adapted from a figure in: Regional Office for the Western P. Monitoring universal health coverage in the Western Pacific: framework, indicators, and dashboard: Mandaluyong City: Asian Development Bank; 2016]

In 2014, a collection of articles in PLOS ONE compared UHC status in various countries using the WHO/WB monitoring framework (12). The collection of papers used "health services coverage" and "financial protection coverage" as key indicators of the UHC monitoring framework and raised issues about "the measurement of financial protection, service coverage, effective coverage, equity and UHC" (80-83). The importance of this series of articles was demonstrating the comparison of such indicators across different countries (12).

In 2020, the *GBD 2019 Universal Health Coverage Collaborators* published an article in which the types of health service (promotion, prevention, treatment, rehabilitation, palliation) in the *WHO/WB framework* was modified. This framework was named the "UHC effective coverage measurement framework" (13). This framework was developed based on 23 coverage indicators used in 204 countries between the years 1990-2019, and mapped those indicators to measure the effective coverage of various types of health services among different age groups (13).

While the existing frameworks have been providing researchers with comprehensive data on monitoring the progress of UHC implementation in a range of countries, there are no frameworks available to monitor the implementation of oral health care in health systems. However, there are oral health care indicators that exist in the literature which could be used as part of an oral health monitoring framework. These indicators vary from oral health care utilization to financial coverage and oral health status measures, and could be used to design the oral health framework.

## 2.9. Project outline.

It was within this context that the WHO undertook to develop a GOHAP, including an oral health monitoring framework and related indicators of oral health and oral health care integration into general medical care and UHC. The work included the following steps:

- 1. conducting a scoping review to identify relevant indicators
- 2. integration of indicators identified in the scoping review with those identified through a parallel search of the grey literature as well as WHO databanks
- 3. creation of a "long list" of potential indicators
- 4. shortlisting of the potential indicators in Step 3 to a list ready to be used as part of a Delphi process, whose goal is to reach consensus on a "short list of indicators"
- 5. identification of a group of experts to participate in the Delphi process
- 6. performance of the two-round Delphi process
- 7. creation of a "short list" of indicators
- 8. informal consultation with WHO regions concerning the framework and indicators
- 9. formal consultation with WHO members states concerning the Global Oral Health strategy (GOHS) and the GOHAP, incorporating the monitoring framework and the indicators
- 10. formal vote on the GOHS and GOHAP by WHO member states in spring 2023

My contribution to this overall work plan included performance of step 1 and active participation in steps 2-7. The work in this thesis is reporting parts of a more complex project which is ongoing at this point. My thesis will report on step 1, which is the subject on an article to be submitted to a peer-reviewed journal and then on steps 2-7. The rest of my thesis will include a chapter on the article followed by the standard structure of the methods, results, discussion, and conclusion sections. The methods and results sections will be reflected in two parts: the scoping review and the Delphi process.

## 3. Manuscript.

Title: Evaluating the integration of oral health care within universal health coverage in low-, middle-, and high-income countries: a scoping review

Yassaman Karimi Jashni<sup>1</sup>, Fatemeh Emari<sup>1</sup>, Martin Morris<sup>2</sup>, Paul Allison<sup>1</sup>

#### Abstract.

**Background:** The World Health Organization (WHO) has recently devoted special attention to oral health and oral health care. WHO promoted oral health care becoming part of Universal Health Coverage (UHC) to improve oral health and reduce inequalities across the globe. In this context, it is essential to develop a monitoring framework to measure the progress of integrating oral health/health care into UHC. This study aimed to identify the existing measures in the literature that indicate the level of oral health/health care integration into UHC across a range of low-, middle- and high-income countries.

Methods and Findings: A scope of the review was conducted by searching MEDLINE, CINAHL, and Ovid Global Health databases. There were no quality or publication date restrictions in the search strategy. An initial search by a university librarian was followed by the independent reviewing of all identified articles by two authors for inclusion. Articles that did not receive agreement from the original reviewers were reviewed by a third author, and an agreement was reached on which articles were to be included. Subsequent to compiling relevant indicators from the 83 included articles, the results were descriptively mapped using a simple frequency count of the indicators. The included articles presented a wide range of 32 countries and were published between 1995 and 2021. This review identified 54 indicators and categorised them into 15 categories. The most frequently reported indicators were in the following categories: dental service utilization, oral health status, cost/service/population coverage, finances, health facility access, and workforce and human resources. This study was limited as a few databases were searched, and English-language publications were included only.

**Conclusion:** This scoping review identified a variety of indicators that had the potential to be used to evaluate the integration of oral health/health care into UHC.

<sup>&</sup>lt;sup>1</sup>Faculty of Dental Medicine and Oral Health Sciences, McGill University, Montréal

<sup>&</sup>lt;sup>2</sup> Schulich Library, McGill University, Montréal

#### Introduction.

In 2015, the Member States of the United Nations (UN) set Universal Health Coverage (UHC) as one of the targets to be achieved by 2030 as a part of the Sustainable Development Goals (SDGs) agreement (Target 3.8) (1). This target was reasserted in the United Nations General Assembly High-Level Meeting on UHC in 2019 (2). UHC has been defined as "the desired outcome of health system performance, whereby all people who need the full spectrum of health services (that is, promotion, prevention, treatment, rehabilitation, and palliation) receive them according to need, without resulting in hardship (including possible impoverishment caused by out-of-pocket payments) because of any associated health care costs" (3).

Countries are making progress towards UHC, and governments have set different strategies to move towards this goal (3). These strategies follow the main elements of UHC: access, coverage, service quality, and financial protection (3). Moreover, a direct correlation exists between achieving progress towards UHC and progressing in additional health goals (2). This is because sustainable improvements in UHC enhance populations' health and economic well-being (1, 2). UHC is a system providing health services for a wide range of health problems, including oral health problems. Therefore, oral health care services could, and indeed should, also be defined as part of UHC systems to provide accessible and affordable services to a community.

The 2017 Global Burden of Disease (GBD) study reports indicated that around 3.5 billion people are affected by oral diseases globally, including untreated caries in permanent teeth as the most common non-communicable disease (NCD) (4). Severe periodontal diseases and oral cancer are also oral health conditions that raise the incidence rate of populations' oral disease levels in different parts of the world (4). Furthermore, treatment costs, out-of-pocket payments, and lack of access to oral health care services additionally affect populations' oral health (5). Therefore, in 2019, oral health was included in the WHO Political Declaration on UHC, with the aim of promoting accessible and affordable oral health care services throughout the world (2).

Along the same lines of the UHC strategies, in 2020, a *The Lancet* Commission on Global Oral Health (6) was established to reflect on different plans and policies for the improvement of oral health and the revision of dental health care services globally to make oral health and oral health care more accessible for all people, particularly those with the highest burden of disease and the poorest access to care.

In 2021, the WHO published specific resolutions on oral health during their 148th session, and in the World Health Assembly resolution WHA74.5, explicitly mentioned repositioning oral health as part of the global health agenda in the context of the UHC (7, 8). The resolution addressed delivering oral health services as part of UHC and drafting a global strategy for implementing the most efficient and effective interventions in public oral health systems across the world. Accompanying this, the WHO engaged to develop a global oral health strategy, setting a framework to assess the progress of oral health care integration into UHC (7, 8). Accordingly, the WHO committed to develop this global oral health action plan by the year 2023.

Around the same time but as a separate initiative, the World Dental Federation (Federation Dentaire Internationale; FDI) published the "FDI Vision 2030" report addressing the assimilation of good quality, essential oral health services into the general medical health care system in every country by the year 2030 (9). This vision stated that the combination of oral and general person-centred health care results in more effective prevention and management of oral diseases (9).

Taken together, these separate initiatives of a *The Lancet* Commission, the WHO and the FDI indicate that there is a strong world view to integrate oral health care into general health care and into UHC.

To evaluate UHC implementation in a country, recommendations have been made on setting up a monitoring framework based on various elements (3). The suggested elements may differ from one country to another because the economic, social, health care system, and other factors differ (3).

The two main indicators being used to measure the progress of UHC as SDG target 3.8 are essential health services coverage and financial risk protection against service costs (financial hardship) (10, 11). Based on these two indicators, The World Bank and WHO built a framework to monitor the implementation and progress of UHC in the health system (12). This framework is mentioned as the WHO/WB monitoring framework in the rest of this article.

A selection of fourteen key indicators classified in four main categories are being used by the WHO and World Bank to track the coverage index of essential health services in this *WHO/WB* monitoring framework. These four categories are: reproductive, maternal, new-born, and child health; infectious diseases; non-communicable diseases; and service capacity and access (13).

Many of the 14 key indicators in these categories assess factors that are recognized to be common across many countries (13).

However, among the suggested indicators, there are no measures that involve or are specific to oral health and/or dental care. If progress is to be made in the aforementioned vision of integrating oral health care into general health care and UHC, it is not possible to evaluate progress within and across nations without clear, agreed-upon indicators. Setting up a monitoring framework including such indicators is crucial to evaluate the progress towards these goals in any community, whether national or global. Furthermore, given the global outlook of the aforementioned organizations, it is crucial to identify indicators of the integration of oral health care into general health care and UHC for a broad range of countries. If we are to address this issue from a global perspective, consideration needs to be given to low-, middle- and high-income countries, as well as those that already have UHC or not and multiple other factors that will differ across countries.

In this context, the aim of this project was to identify indicators that that have the potential to demonstrate the extent to which oral health care is integrated within general health care and UHC across a broad range of low-, middle-, and high-income countries.

#### Methods.

A scoping review "provides a preliminary assessment of the potential size and scope of available research literature. It aims to identify the nature and extent of research evidence (usually including ongoing research)" (14). This scoping review aimed to find oral health care indicators relevant to integrating oral health care into UHC and general health care. It was conducted based on Arksey and O'Malley's methodological framework for scoping reviews (15).

Based on the research question, a medical librarian developed a search strategy for exploring related literature in MEDLINE (Ovid) database. The search strategy was converted for CINAHL and Ovid Global Health databases in advance (Table 1). The databases were searched using Medical Subject Headings (MeSH) and equivalent terms, Keyword Heading Words, Text Words, adjacency, and Boolean operators. Universal health coverage, universal health insurance, oral health, and dental health services were defined as key concepts of the search strategy. The searches were carried out on September 16, 2021, without any language, publication date, geographic limit, or quality restrictions (including primary study articles,

reviews, meeting abstracts, conference proceedings, book chapter reviews/articles, and commentaries).

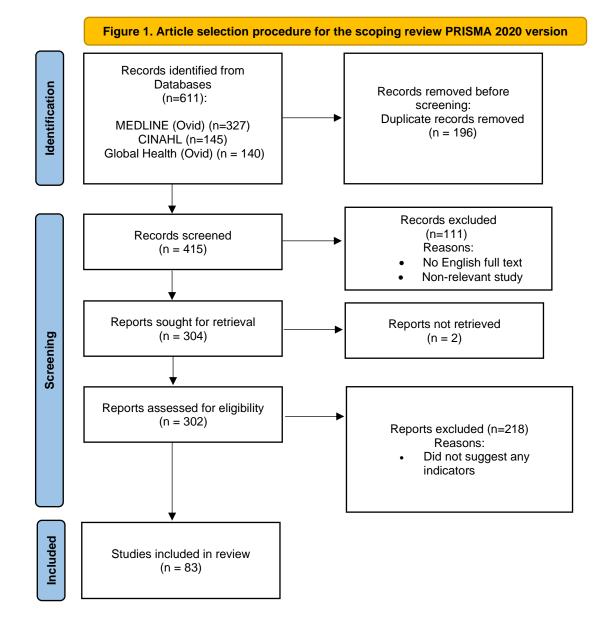
Six hundred and eleven (611) document records were identified through searching the above-mentioned databases. The exclusion of the duplicates resulted in 415 records. Two team members screened the 415 articles' titles and abstracts independently to explore the documents potentially relevant to the aim of the study and the research question. Following this primary title/abstract screening, 114 articles were removed from the search list as they were either unrelated to the primary concept of the study or in languages other than English. The result was that 301 articles were fully reviewed by two team members independently. The inclusion criteria comprised articles addressing any indicator to measure a health care system's progress towards UHC, such as oral health and health insurance. See the search strategy (Table 1) for the precise terms used to apply as the inclusion keywords. Articles that had no suggestions on indicators were excluded. Eighty-three articles were retained after the application of these inclusion and exclusion criteria. Articles that the two reviewers disagreed on were reviewed by a third author, and agreement with the original reviewers reached on articles to be included. The article assessment process is displayed in a Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) flowchart (Figure 1) (16, 17).

The two reviewers appraised ten articles and evaluated their results to ensure the process's reliability by spotting the differences and settling on an agreement to report these differences through the process. The data extracted from each article were: the articles' DOI/web address, publication year, country of origin, and a detailed description of the indicator(s). This process was performed independently by two reviewers. Relevant indicators were then extracted from included articles. Ultimately, the data were collected and descriptively mapped based on a simple frequency count of the indicators.

No specific ethical approval was needed as this study was based on the published data.

## **Table 1.** Search strategy (developed for searching Medline)

- 1. exp universal health care/
- 2. ((universal adj2 (health or coverage or insurance)) or (social\* adj2 (coverage or insurance))).tw,kf.
- 3. (essential adj2 (healthcare or health care)).tw,kf.
- 4. exp Universal Health Insurance/
- 5. (essential adj2 (healthcare or health care)).tw,kf.
- 6. or/1-5
- 7. exp Dentistry/
- 8. exp Oral Health/
- 9. exp Stomatognathic Diseases/
- 10. exp Dental Health Services/
- 11. (dentist\* or denturist\* or ((dental or oral) adj3 (health or care or surgeon? or office? or clinic? or assistant? or nurse? or hygien\* or practitioner? or professional? or auxiliar\*))).tw,kf.
- 12. (dentist\* or endodont\* or orthodonti\* or periodont\* or prosthodont\* or oropharyng\* or jaw or jaws or mandibular or maxillofacial or mandible\* or maxilla\* or tooth or teeth or odontolog\* or tongue\* or glossal or buccal or palatal or palate or palates or labial or lip or lips or gingiva\* or gingiviti\* or halitosis or bad breath or DMF).tw,kf.
- 13. or/7-12
- 14.6 and 13



#### Results.

Reviewing the 83 included articles resulted in distinct categories of indicators relevant to the topic of interest. Included articles were published in English and covered a wide range of 32 low-, middle- and high-income countries. The publication dates spanned 1995 to 2021.

This scoping review identified a total of 54 different indicators. In particular, 34 indicators were classified under 14 main categories, describing indicator definitions, specific terms used to represent indictors, and variations by which indicators were measured in the studies. Six indicators were not assigned to any categories, and 14 indicators did not have specific definitions or clear examples. Different potential sources of data collection have been suggested in the table of results. These sources were: individuals in the population, dental professionals and government staff including public health officials.

Among the 14 defined categories, "dental service utilization" and "oral health status" were the categories with the highest numbers of potential indicators and/or the categories with indicators repeated most often. In the selected articles, "dental service utilization" included two indicators that were mentioned a total of 65 times in various formats among a wide range of high- to low-income countries. In the category "oral health status", eight indicators were stated 58 times in various countries.

"Coverage" was a category with three indicators: "cost coverage", "service coverage", and "population coverage". These indicators were reported 26 times in various formats among countries with diverse socioeconomic statuses. Another three indicators that were classified as the "finances" category were: "costs for the provider", "costs/expenses for the patient", and "funding sources", which were stated 22 times in several countries. "Health facility access" included three indicators named "geographic access", "health facility access", and "home care". These indicators were mentioned 21 times in different countries.

The remaining categories of the identified indicators were "workforce", "knowledge of oral health", "fluoride", "oral hygiene", "availability and acceptability of services", "need and demand for dental care", "diet", "policies" and "infection control". The indicators classified under these categories were reported fewer times and in a limited number of countries compared to the aforementioned indicators. The results have been comprehensively demonstrated in Table 2.

**Table 2**. Table of results.

Factor	Indicator	Source of data	Specific terms*	Variation**	Countries or regions used	Number of times used	References
Dental service utilization	Consultation /visit (professional/ dental care facility) over certain period	Individuals +/or government sources	Visit in last 3 months (3) Visit over last 6 months (1) Visit in last 12 months (23) Visit last 2 years (1) Visit in last 5 years (1) Visit in 5+ years (1) Home visit (dentist/dental hygienist) (1) Last dental appointment/visit (3) Preventive dental visit (1) Visit specialist (1) Receive care in last 2 years (1) Number of dental treatments annually (1) First visit (1) Visit dentist /Dental care visit (6) Dental/oral health checkups (2) Visit only for emergency (1) Foregone dental care in last 12 months (1) Never seen a dentist in life (1) Having a regular dentist (1) Days spent on dental care in a year (1) Dentalcare/dental services utilization in last 12 months (2)	As an access indicator By number of visits By age By frequency By Time since last visit By purpose of visit (need only, check-up, treatment) By reason (costs, waiting lists, travel difficulties) By service type By number of days	Low-income: Burkina Faso  Middle- income: Brazil, China, Colombia, Malaysia, Mauritius, Nigeria, Peru, Thailand, Turkey  High-income: Australia, Canada, Chile, Denmark, Estonia, Europe, Finland, Israel, Ireland, Japan, Spain, Sweden, Taiwan, UK, US	65	(18-69)

			Utilization of primary oral health service (1)				
	Type of treatment obtained	Individuals +/or government sources	Extraction (3) Type of treatment obtained (4) Fillings (2) Prescription of medication	By type			
Coverage	Cost coverage	Individuals	(1) Insurance coverage (3)	By type (e.g.,	Middle-	26	
		+/or public health or government sources	Health Insurance system (1) Insurance scheme (1) Healthcare Coverage type (1) Social health insurance (1) Cost coverage package (2)	public/private/mutual oral care coverage)	income: Brazil, China, Colombia, Nigeria, Senegal, Thailand, Turkey		(26, 34, 41, 42, 45, 48, 66, 70-79)
	Service coverage	Individuals +/or public health or government sources	Service coverage (2)  Dental coverage (4)  Oral health coverage (2)  Comprehensive services (1)  Major services (1)  Basic services (1)  Preventive services (1)  Adoption of prevention and oral health promotion (1)  The extent of oral health services in the UHC benefit packages (1)		High-income: Europe, Israel, Japan, US		
	Population coverage	Individuals +/or public health or government sources	Population coverage (3)				
Finances	Costs for provider	Provider representative	Cost of material/equipment (1)	By payment type (out of the pocket)	Middle- income:	22	(26, 34, 47,
	Costs/expenses for patient	Individuals +/or public	Cost of treatment/oral health care (3)	By ability to pay	Brazil, Colombia,		48, 53, 56, 66, 67, 70,

	Funding sources	health or government sources  public health or government representative	Oral Health/dental care expenditures (4) Ability to pay (4) Out of pocket payment (6) Affordability of services (1) Government (2) Donors (1)	Costs prevented receiving treatment	Nigeria, Senegal, Thailand, Turkey High-income: Australia, Israel, Japan, Taiwan		71, 73, 77- 82)
Health facility access	Geographic access	public health or government sources Individuals	Health facility geographic location (3)  Travel time (2) Outreach to rural/underserved populations (1)	By geographic location of facility/distance By physical availability of the facility By travel time	Middle-income: Nigeria, Thailand, Turkey High-income:	21	(21, 34, 47, 53, 56, 66, 67, 71, 75, 77, 78, 80-83)
	Health facility access	Individuals +/or public health or government sources	Health centre number/dental facility (3) Availability of service (2) Type of facility utilized (3) Access to dental care service (4) Person's ability to obtain necessary care (1)	By service access rate By availability By accessibility	Australia, Europe, Japan, Taiwan		
	Home care	Individuals +/or public health or government sources	Home oral rehabilitation services (1)  Dental Home Care Management (1)				
Oral health status	DMFT	Profession +/or public health or government sources	DMFT/dmft (9) dmfs (1)	By score	Low-income: Burkina Faso Middle- income:	58	(19, 21, 24, 25, 27, 39, 40, 42, 45, 56, 61, 66,
	Missing teeth	Profession +/or public health or	Missing teeth (6) Tooth loss (4) Edentulism (2)	By number	Brazil, China, Colombia, Nigeria,		67, 70, 71, 73, 77, 84- 93)

	government sources	Number of natural teeth in adults (2) Survival of permanent teeth (1)		Serbia, Thailand High-income:
Pain in teeth	Individual or profession or public health	Pain/toothache (2)	By severity	Australia, Canada, Denmark,
Periodontal condition	Profession +/or public health or government sources	Periodontal condition/disease (6) Attachment loss >=4mm (1)	-	England, Finland, Germany, Israel, Japan, Korea,
Caries	Profession +/or public health or government sources	Untreated caries/caries lesion (4) Dental caries (4) Fillings with secondary caries (1) Caries free teeth (1) Untreated tooth decay (1)	By age (in children)	Netherlands, US
Oral mucosa disease	Profession +/or public health or government sources	Oral mucosa disease (1)	-	
Craniomandibular dysfunction	Profession +/or public health or government sources	Craniomandibular dysfunction (1)	-	
Oral health condition	Individual or profession or public health	Dental fluorosis (1) Use of dentures/denture wearing (2) Chewing ability (2) Poor oral health (condition) (1) Tetracycline-stained teeth (1) Oral health assessment (1)	-	

			Self-reported oral health (2) Disability caused by severe tooth loss (1)				
Workforce	Dental workforce	Profession +/or public health or government sources	Dental workforce/Human resource number (4) Human resource availability (1) Shortage of trained dental personnel (1) Qualified dentalcare staff (1) Dentist/population ratio (2) Geographic distribution of health providers (1)	By availability By number in population (between urban and rural areas) By ratio	Middle-income: China, Nigeria, Senegal High-income: Australia, Europe, Ireland, Japan,	11	(26, 42, 50, 56, 66, 71, 75, 77, 79, 81, 94)
	Attitude of health provider	Profession	Attitude of health provider (1)		Taiwan		
Knowledge	Awareness of oral health	Individual or profession or public health	Awareness/knowledge of oral health (4) Population education (2) Health education and information (1) Information on oral health care (1) Oral health literacy (1)	By rate (improved) By education status (socioeconomic factor)	Middle-income: Nigeria, Senegal, Thailand, Turkey High-income: Germany, Japan	9	(22, 34, 46, 66, 77, 79, 81, 92)
Fluoride	Water fluoridation	Public health or government	Fluoridated water exposure (1) Fluoridation of the water supply (2) Fluoride intake (1)	By exposure As collective prophylaxis	Low-income: Burkina Faso Middle- income:	7	(25, 61, 70, 77, 90-92)
	Fluoride prophylaxis	Individual or profession or public health	Fluoridated table salt (1) Topical fluoride (1) Fluoride toothpaste (1)		High-income: Canada, Germany, Israel, Japan		

Oral hygiene	Oral hygiene	Individual	Practicing interproximal cleaning (1) Hygiene habit (6)	By habit type (cleaning, chewing sticks, brushing, flossing) By frequency	Low-income: Burkina Faso  Middle- income: China, Thailand  High-income: Canada, Finland, Germany, Japan, US	7	(18, 22, 25, 39, 61, 77, 91)
Availability and acceptability of service	Waiting time  Acceptability/satisfaction	Individual or profession or public health	Waiting time for appointment (2) Waiting room time (1) Satisfaction with last treatment period (1) Speed of services and referral system (1) Acceptability of service (1)	By waiting time By speed	Middle-income: Colombia, Thailand High-income: Australia, Finland, US	6	(39, 48, 56, 78, 80, 95)
Need and demand for dental care	Unmet needs  Perceived need  Demand	Individual or public health  Individual  Individual	No unmet need for oral health services in the prior 12 months (1) Reasons for unmet needs (1) Annual incidence of unmet oral health needs (1) Perceived need for treatment (1) Health demands (1)	By unmet needs and oral condition	Middle-income: China, Ghana, India High-income: Australia	5	(26, 56, 80, 96)
Diet	Sugar consumption  Diet	profession Individual or public health	Sugar consumption (1) Drink sugar-sweetened beverage (1) Eating healthy food (1)	-	Low-income: Burkina Faso	5	(22, 25, 77, 91, 92)

		Individual or public health	Dietary habits (2)		Middle-income: China, Thailand		
					Germany, Japan		
Policies	Government policies	Public health or government	Government policies for oral health (1)  Policies for oral health (1)	-	Middle- income: Nigeria	2	(66, 81)
Infection control	Infection control resources	Profession or public health	Infection control resources (1)	-	Middle- income: Nigeria	1	(81)
Other	Other		Health status (1) Contact oral health services with the broader health system (1) Transport and appropriate technologies (1) Effective dental education system (1) The proportion of primary care, services, promotion, and prevention (1) Social support about oral health (towards periodontal status) (1)		Middle-income: China, Colombia, Thailand	6	(22, 26, 42, 48, 71)

<sup>\*</sup>Numbers in parentheses represent the frequency of each indicator.

**Dental service utilization:** Visiting/consulting a health professional is considered a health care access indicator. Visiting/consulting a health professional during a specific time was studied by the number of visits in that period, age of the visitors, frequency of visits in that period, the time passed since their last/first visit, the purpose of visit (need only, check-up/preventive dental visit, receiving treatment), and the reasons for foregone dental care (costs, waiting lists, travel difficulties). The health care services utilization was studied by type of the service that was utilized (e.g., dental care in the last 12 months), and the number of days needed to use a health care service such as dental care. The treatment that individuals obtained using oral health care services was studied by investigating the treatment type (e.g., filling or extraction).

<sup>\*\*</sup> The 'variation' column describes how were the indicators been measured in the studies:

**Coverage:** The insurance coverage of the population was studied considering the type of coverage they have (e.g., public, private, or mutual oral care coverage).

**Finances:** Costs/expenses imposed on the patients were studied by how they pay the costs using their financial sources (e.g., out-of-pocket payment), the financial ability of the consumers to pay the costs of services, if the costs prevented them from receiving treatments, and if the dental care access was avoided/delayed due to costs. The funding for health services could be offered by governments or donors.

**Health facility access:** The geographic access to health facilities varies by the geographic location of/distance to the health facility itself, the physical availability of the facility, and the time needed to travel to the facility. Availability of the health facility differs in physical availability and the range of the population that access care (broad range). Accessing the health facility varies by the rate of access to services (increased dental care), access problems, geographic inequalities, and transportation access rate (better transportation).

**Oral health status:** The variations in the DMFT/dmft score were investigated in studies as an oral health condition. Missing teeth status differs in the number of missing teeth. Experiencing teeth pain varies by the severity of pain. The prevalence of untreated caries varies by the age of the population/individual (e.g., children).

**Workforce:** The availability of dental workforce, their distribution number in the population (between urban and rural areas), the ratio of the workforce over the number of the population, and their geographic distribution were reflected in the studies mentioned dental workforce.

**Knowledge**: The population's lack of awareness or improved awareness of oral health was studied as to their knowledge of oral health. Assessing oral health awareness was also studied by the population's education status (a socioeconomic factor). Oral health Literacy was studied as skills toward health information and services, knowledge and understanding of health information, Communication, Self-management, Media literacy, and Decision-making.

Fluoride: Using a fluoridated water supply or using fluoride as prophylaxis was considered fluoride exposure in several studies.

**Oral hygiene:** The population's oral hygiene varies by their oral hygiene practice habits (e.g., cleaning, traditional chewing sticks, brushing, or flossing) and its frequency.

**Availability and acceptability of service:** The availability of service was studied through the waiting time for appointment (e.g., more than 6 months), and the speed of receiving the services and referral system.

Need and demand for dental care: Health demands were studied based on unmet oral health care needs and poor oral condition.

#### Possible indicators which do not have clear examples of indicators: (numbers in parenthesis are reference numbers)

- "Engaging the local population in integrating oral health into universal health coverage." (97)
- "Educating the society on oral care delivery model." (98)
- "Oral health team should acquire a thorough understanding of the importance that social determinants play in oral as well as general health." (99)
- "Dentists and the oral health team should engage in partnership with communities to help them better understand and tackle the social, economic, and environmental factors that determine oral health and increase inequalities." (99)

- "Dentists and the oral health team should engage with colleagues such as primary health care professionals (cross-sectoral partnerships)." (99)
- "Dentists should become advocates for health, particularly oral health, with their patients and the wider community." (99)
- "Advancement of the population's knowledge, attitudes, and skills towards oral health." (100)
- "Expansion of support, and development of cohesiveness and partnerships in achieving oral health." (100)
- "Organizational change such as policy, regulatory, and strategic directions." (100)
- "Workforce development such as integrating dental public health discipline in professional learning programs." (100)
- "Resource allocation to achieve new/reorient available resources for health promotion and prevention." (100)
- "Impowering leadership skills for advocacy, lobbying, and awareness raising." (100)
- "Developing partnership, shared goals, and planning oral health integrated programs with the community and between different organizations for capacity building." (100)

#### Discussion.

In recent years, special attention has been directed by a range of international organizations and groups to oral health care and its integration into UHC. To ensure progress is made in this integration process, it is important to have a monitoring framework incorporating relevant indicators. This framework should be adaptable to monitor progress in a range of low-, middle-and high-income countries. It should also be simple, practical, and comprehensive to cover all relevant oral health care domains. Currently, there is no such framework available to monitor the implementation of oral health care into the UHC, although this is being developed as part of the preparation of a global oral health action plan by the WHO. This framework and the aforementioned WHO plan need to use relevant indicators to track how the integration process is progressing. This scoping review has identified oral health care indicators that could be used as part of a global monitoring framework for oral health care integration into UHC and general health care.

Different frameworks are being used to monitor UHC development in a range of countries and health systems. For instance, the WHO/WB monitoring framework was used as the main framework in most countries. Countries adjusted this framework to measure the progress of UHC in the desired health care scopes, based on the needs of their populations. These frameworks have many similarities but also have some differences in accordance with the different regions of the world in which they are being used (101, 102).

Another alternative is the framework developed by incorporating the WHO/WB monitoring framework into the results chain framework (the results chain framework) (103). This framework classifies indicators to measure the UHC development based on input, output, outcome, and impact domains in the health system (103). Therefore, when we look at the wide range of indicators that were found in this study, we can see how most of the findings fit into these existing frameworks developed for a broad range of health services beyond oral health care.

"Visit an oral health care facility or an oral health professional" was the most frequently reported indicator in this scoping review. This is similar to indicators such as the "number of antenatal and postnatal visits", which were used in the WHO/WB monitoring framework and its adjusted version used in a range of countries such as Bangladesh, Iraq, South Africa, and India (13, 101, 102, 104, 105). Another comparable indicator was "outpatient service utilization", which was categorized as an output indicator in the results chain framework (106).

Accordingly, these service utilization indicators reasonably seem practical for measuring oral health care access.

"Oral health status" indicators were the second most frequent set of indicators found in the literature. They cover a wide range of indicators from "DMFT" to "craniomandibular dysfunction" and "oral health condition". The WHO/WB monitoring framework focuses on NCD health status indicators such as "blood pressure", "blood glucose", and "cervical cancer prevalence" to monitor the general health status of the population (13, 107). Similar to that, other frameworks used various health status indicators either as impact or as treatment indicators (102, 108-110). Therefore, oral health status indicators could fit into the existing frameworks with the same aim.

"Cost-, service-, and population coverage" were the coverage indicators reported numerously in the oral health care literature. "Coverage of the health services" and "financial protection" were the two main components used to outline the WHO/WB monitoring framework (12). Furthermore, "service coverage" was the key index for developing the WHO/WB monitoring framework to follow UHC implementation in health systems (3, 13). These three coverage indicators are the three main components of UHC that could be used as leading indicators for monitoring progress in integrating dental care in UHC (111). They enable us to understand the progress towards the target of achieving UHC in different health systems. These three indicators are comparable with various general health care indicators that fit into the "intervention coverage" category in the results chain framework, which are assessed as an outcome indicator in the health care system (103, 106). "Population coverage" was another similar indicator that was applied in the monitoring framework designed to measure UHC implementation in Pan-American countries (112).

In terms of "cost-coverage", various indicators have been used in different monitoring frameworks as UHC development and provision indicators, to evaluate governments' and the private sectors' health care financing and populations' financial risk protection against catastrophic health expenditure (102, 105, 109, 110, 112-114). "Costs for health providers", "expenses for patients", and "funding sources" were finance indicators reported in our study's results. The main concept of UHC is offering health services without causing financial hardship. Costs are a determinant factor in terms of populations' successful utilization of health care and the reason why many people do not consult dental professionals even if they needed to (115).

Providing the population with access to health care services is the main idea of UHC (2). The presence of accessible services is an asset in the health care system. "Service capacity and access" is among the four main categories of the WHO/WB monitoring framework and is identified as a system output (13, 109). "Health facility access", "geographic access", and "homecare" were the access indicators found in the oral health care literature. The "number of health facilities (hospitals)", "service availability", and "access barriers" were the indicators used in monitoring frameworks of India, Kenya, and Pan-American countries (105, 110, 112).

"Health care worker density" is another indicator classified under the "service capacity and access" category in WHO/WB monitoring framework (13). The results of the current review found "dental workforce" and "attitude of health providers" as indicators related to this category. The "workforce" indicator was measured as an input indicator in the monitoring framework for UHC in Bangladesh (109). "Meeting the workforce threshold" is one indicator that shows that countries' health systems are performing well towards achieving UHC (116).

Improving health literacy among the population is one of the key characteristics of essential health information (117). Our review found "awareness of oral health" as an indicator of the population's knowledge and oral health literacy. "Health information" was stated as an input indicator in the Bangladesh monitoring framework for UHC (109). Improving oral health knowledge in the population may encourage people to look after their oral health.

The results of this review also found "waiting time" and "acceptability of service" as two indicators in the health service availability and acceptability category. "Waiting time" and "patient referral" were measured as "service capacity and access" indicators with the former being measured as input and the latter as output indicators in the monitoring framework designed for India (105). These indicators are essential in providing improved oral health care access to populations.

Other indicators identified in our review, such as "fluoride exposure" and "oral hygiene" were oral health-related indicators that could not be found in the existing monitoring frameworks, such as the WHO/WB monitoring framework, and the aforementioned regional and country modified frameworks. Other indicators related to the "need and demand for dental care", "policies", and "infection control" domains were also found in the oral health care literature. Among other suggested indicators, these indicators might be used as future measures to assess the UHC progress, although some could not be measured as system variables (such as "diet").

This scoping review was conducted to identify potential oral health care-related indicators for monitoring the implementation of oral health care into UHC. The results of this study were limited as we only searched a few databases, and in particular, we did not search the so-called "grey literature" of government survey reports on oral health and oral health care, which contain many examples of the types of indicators we were searching for. Another limitation was that we included only publications written in English. Although the results covered a broad range of oral health care categories, some areas could be missing. Consulting professional experts in the field could help transcend this limitation.

#### Conclusion.

There is a need for a monitoring framework to evaluate the progress of oral health care integration into UHC and general health care. This scoping review identified indicators in a wide range of oral health care domains relevant to the integration of oral health care into UHC and general health care. Many of these indicators were relevant to all forms of health care, including oral health care, whereas some were more specific for developing the oral health care monitoring framework. While it is possible that we missed some oral health care indicators in our review, when comparing our results with those of the WHO/WB monitoring framework, it seems we have included all the categories of indicators. Further studies, as well as interviews with experts, could be conducted with the aim of finding more indicators and choosing the most relevant ones to achieve a consensus on creating a practical and comprehensive monitoring framework for oral health care integration into UHC and general health care.

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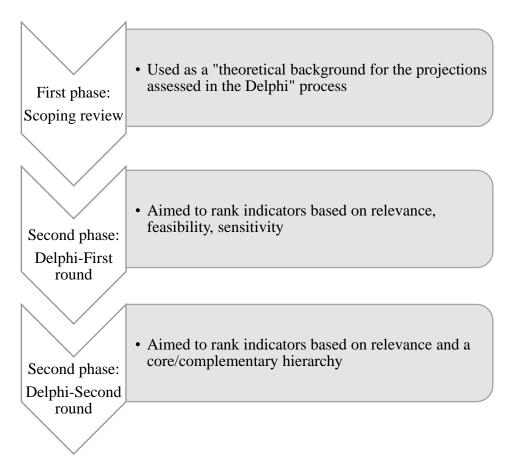
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#### 4. Methods.

#### 4.1. Study design.

This study was conducted to identify oral health and oral health care indicators to be part of a monitoring framework of the global oral health action plan to measure the progress of oral health care delivery and its implementation into UHC across a range of low-, middle- and high-income countries. To reach this aim, this research was done by WHO in collaboration with McGill University and the International Health Policy Programme Foundation (IHPP) of the Ministry of Public Health in Thailand in two phases (Figure 2. Study design).

Figure 2. Study design.



## 4.2. First phase, the scoping review.

In the first phase, a scoping review was conducted from September 2022 to December 2022 by McGill with the aim of identifying oral health and oral health care indicators existing in the literature that have the potential to be used in the monitoring framework. This review is attached to this thesis as a manuscript (see pages 24-50).

## 4.3. Integration of indicators.

The results of the scoping review identified 54 indicators. Parallel work performed by the IHPP and WHO teams identified 61 indicators searching grey literature and WHO databanks. These two groups of indicators were put together to generate a long list of 115 indicators. There was then a process involving the IHPP, WHO and McGill teams to discuss and vote on the 115 indicators to reduce it to a list of 45 indicators ready for use in the Delphi process.

# 4.4. Second phase, the Delphi process.

## 4.4.1. Delphi technique description.

Delphi is a survey technique developed in the 1950s "to obtain the most reliable consensus of opinion of a group of experts [. . .] by a series of intensive questionnaires interspersed with controlled feedback" (84). It is defined as "a widely used and accepted method for achieving convergence of opinion concerning real-world knowledge solicited from experts within certain topic areas" (84). "Anonymity," "iteration," "controlled feedback," and "statistical group response" are the main criteria of the Delphi technique (85).

By combining "subjective group judgment," "analytical techniques," and "the experience of the researcher," the Delphi technique seeks to guide group opinion to an ultimate decision (86). Delphi technique could be used in various research fields, including health sciences. Mainly, it is applied in health sciences when the information available is incomplete or uncertain, and other methods that provide stronger evidence cannot be used (87). "Developing measurement tools and identifying indicators" was the principal aim of its use in this study (87).

Delphi is classified under ten categories: classical, modified, decision, policy, real-time, e-Delphi, technological, online, argument, and disaggregative (88). The modified Delphi method, which was used in this study, could be applied with different aims to the relevant group of experts in the specific field in less than three rounds (88).

As a multistage technique, the first questionnaire of the Delphi is designed based on a literature review, expert interviews, or a workshop (85). Each stage of the Delphi is developed based on the previous stage (86). The next round's questionnaire is built based on the responses of the participants in the previous round. The results of each round should be shared with the

respondents before the start of the next round. The Delphi is completed after the consensus is achieved in the desired round. The level of consensus was reported to be 75% in different studies (89). The Delphi technique is often followed by the "development of scenarios" and "managerial insights" (90).

## 4.4.2. The Delphi process in the current work.

In the second phase, a Delphi process was used to reduce the list of 45 indicators to a "short list". A panel of 33 consultants called the *Global Informal Experts Group* (GIEG) was consulted to arrive at a consensus view on the "short list" of indicators. The GIEG members included chief dental officers or senior advisors at the Ministry of Health, WHO Collaborating Centre representatives, academics, or researchers, WHO staff, and technical experts from all WHO regions.

This study used a two-round, modified Delphi process (88) with the aim of achieving consensus on the "short list" of indicators (87). The expert participants were selected based on the research aim. The Delphi process was administrated online during March and April 2022 by a team of researchers at McGill University, accompanied by a team at the WHO, using the "Lime Survey" online survey platform. This is an online survey tool used at McGill University whereby data input by survey participants is stored in a password-protected databank at McGill University (91).

## 4.4.3. Ethical considerations.

Ethical considerations had been taken into account before starting the survey because participants were providing input about themselves and using their own opinions and the data will be used in publications on the process to identify the "short list' of indicators. There was no risk associated with participating in the survey as it did not involve treatment or procedures that could cause harm, injuries, or discomfort. The information gathered during the survey was kept confidential and anonymous. Survey participation was entirely voluntary, and the participants were free to withdraw from it at any time they wanted to. The participants who agreed to take part in the study signed a consent form before enrolling in the Delphi survey. Approval for this project was given by the McGill University Faculty of Medicine and Health Sciences IRB (e/RAPInfo-Ed File Number: 22-01-039; IRB Internal Study Number: A01-E-02-22A). The approval letter is attached to this thesis as an appendix (appendix 1).

## 4.4.4. First round of the Delphi process.

The 45 indicators used in the Delphi process were classified under five main categories/subcategories:

- Oral health status
- Risk factors for oral health
- UHC for oral health (subcategories: Service and population coverage; Financing/financial protection; Medicines, equipment, devices, digital technology, and other health products; Workforce)
- Governance
- Evidence-informed policy

In the first round of the Delphi process, the long list of 45 indicators was distributed to the GIEG members with the aim of rating the indicators in each category. The participants were asked to rate the indicators based on relevance at national, regional, and global levels; feasibility for regular collection in their country; and sensitivity to detect change over time in their country. All questions used a 5-point Likert scale. The scales ranged from "very relevant" (or very feasible or sensitive) to "completely irrelevant" (or completely unfeasible or completely insensitive) e.g., very relevant, somewhat relevant, neither relevant nor irrelevant, somewhat irrelevant, completely irrelevant, no answer/ I do not know. The "very relevant" (or equivalent) scored 5 and scores descended to 1 for 1 for "completely irrelevant" (or equivalent). The "no answer" option scored 0 (see appendix 2 for a copy of the complete first round survey).

The first-round questionnaire started with the questions gathering sociodemographic data from the participants. The next section of the questionnaire asked participants to rate the indicators of each category. It included the definition of each indicator followed by the preferred source to collect the related data about each indicator and the related links. All survey questions included the "no answer" option for those who did not want to answer the question or did not have a particular opinion.

- Relevance: the degree to which the indicator contributes to measuring progress on the implementation of the Global Strategy on Oral Health and upcoming Global Oral Health Action Plan.
- **Feasibility:** the degree to which an indicator would be easily and repeatedly obtained or collected (at regular intervals to 2030) by suggested data sources.

• Sensitivity: the degree to which an indicator can detect changes over time (by 2030).

At the end of the questions of each category/subcategory, the participants were requested to answer two optional questions: the first one asked to suggest any indicators that were not included in the relevant category but that the respondents believe they should be (indicator's name and brief rationale for inclusion); and the second question asked for other comments regarding the potential indicators listed in each category that could assist in refining them further (for example, regarding the definitions, data sources, age groups, data disaggregation, etcetera.).

In the next step, the results of the first round of Delphi were descriptively analyzed and shared with the GIEG members. The detail of the analysis is provided in section 4.5.

Accordingly, a few indicators were removed from the list within each category because either they had the lowest mean total score in that category, or they overlapped strongly with the definition of other indicators. The rest of the indicators were included in the second round of Delphi.

## 4.4.5. Second round of Delphi.

The first round of the Delphi process did not permit clear differentiation between the 45 indicators with many of the indicators being evaluated strongly by the GIEG members. Given this scenario and considering the goal of the process is to enable reduction of the long list to a short list of indicators, for the 2nd round of the Delphi process we used a modified Delphi process. The investigators decided to change the format of the Delphi questionnaire for the second round, asking survey participants to rank indicators based on a core/complementary hierarchy to verify the priorities among indicators (92). We also adjusted questions concerning feasibility and relevance to be more discriminatory so as to differentiate better between indicators.

The second-round questionnaire used the same categories/subcategories of indicators and gathered the participants' sociodemographic data like in the first round. It also included the "no answer" option in all questions for those who did not intend to answer the question or had no opinion about it. It similarly included the definition of each indicator, followed by the preferred source to collect the related data on each indicator and the related links (See appendix 2 and appendix 3 for a copy of both survey questionnaires).

However, these two questionnaires varied as the second-round questionnaire asked different questions. For every indicator, participants were asked if they would be able to collect data on the indicator in their country by the end of 2023 using the source that provides the most valid data nationally (e.g., oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etcetera.). Year 2023 was chosen as a concrete date to give participants a sense of when to collect the required data. The response options for this question were: "Yes", "no", "I do not know/I am not in a position to answer this". The next question asked the participants to rank each indicator as a *core* or *complementary* one. A *core indicator* will measure the indicator's relevance at the global level and will be collected in all countries. A *complementary indicator* will evaluate the relevance of the indicator at regional and national levels and will be collected in certain countries.

At the end of each category/subcategory, the participants were asked to compulsorily rank the order of indicators in each category/subcategory according to the indicators' relevance in their country (From first to last, with "first" being the most relevant) and provide any optional comments regarding indicators in each category.

The core, complementary, and relevance terms were defined as below:

- Core (Global) indicators: used for comparison between countries and assessment of progress at a global level. (NB: We need to have core indicators for each strategic objective of the draft Global Strategy on Oral Health).
- Complementary (regional/national) indicators: more specific indicators used for key policy areas within regions or for policy development at a national level. (NB: If there is not a consensus on an indicator, and only relevant at national/regional level, it could be classified as complementary).
- **Relevance:** the degree to which the indicator contributes to measuring progress on the implementation of the draft global strategy on oral health and upcoming draft global oral health action plan.

The results of the second round were analysed and shared with the GIEG members.

## 4.5. Data analysis.

In the first round, the respondents rated DMFT based on five questions (country relevance, regional relevance, global relevance, feasibility of collecting data for that indicator, and

sensitivity to change over time) using a 5-score Likert scale (Figure 3. Sample of the first round of Delphi questions). The individual's score for each question rated from 0-5. Based on what we collected form respondents, for each question we mapped the data using measures of central tendency (mean, median) and measures of variability (standard deviation). The scores from the respondents for each question were summed to report respondents' total score for the indicator. Mean, median and standard deviation measures of respondents' total scores were calculated.

To illustrate this process, I demonstrate it for DMFT as an example indicator below.

**Figure 3.** Sample of the first round of Delphi questions.

## **Indicator name: "Mean DMFT"**

**Definition:** DMFT is the sum of the number of Decayed, Missing due to caries, and Filled Teeth in the permanent teeth. The mean number of DMFT is the sum of individual DMFT values divided by the sum of the population.

#### Preferred data source:

At country level:

- Population-based surveys (Conducting a National oral health survey)
- -Routine surveillance systems

At global level:

- Compiled data by WHO Global Oral Health Data Bank (CAPP)

#### **Related links:**

WHO Global Oral Health Data Bank (CAPP): https://capp.mau.se/

Global Health Observatory indicator: <a href="https://www.who.int/data/gho/indicator-metadata-">https://www.who.int/data/gho/indicator-metadata-</a>

registry/imr-details/3812

**Rate "Mean DMFT" in terms of ....** (Please choose the appropriate response for each item)

	Very relevant (5)	Somewhat relevant (4)	Neither relevant nor irrelevant (3)	Somewhat irrelevant (2)	Completely irrelevant (1)	No answer/ I do not know (0)
Relevance to						
my country						
Relevance to						
my WHO						
region						
Relevance						
globally						
Feasibility in						
my country						
Sensitivity to						
change in my						
country						

The analysis of the second round was different from the first round. The number of the indicators in the second round was reduced to 40 after evaluating the first round's results and removing few indicators. However, while the categories and subcategories were the same, the

questions were different in the second round to help the participants better differentiate between the indicators (Figure 4. Sample of the second round of Delphi questions).

In the second round, we generated a mean rank measure (rather than score) for each indicator in each category. Again, to illustrate the process, I describe it using DMFT as an example. The indicator DMFT was ranked within the oral health status category among other 6 indicators. Twenty-three out of 32 respondents ranked DMFT first, 2 respondents ranked it second, 2 respondents ranked it third, no one ranked it fourth and fifth, 2 respondents ranked it sixth, and 4 respondents ranked it seventh. The score for each rank corresponded to the ranking position, i.e., first rank was scored 1, and 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, and 7<sup>th</sup> ranks were scored as 2, 3, 4, 5, 6, and 7 respectively. Then, the number of the respondents in each rank was multiplied by the rank's score. Mean (2.09), median (1.00) and standard deviation (2.13) for the products is determined. The ranking of the indicator was based on the mean values. Indicators with lower mean values are ranked better in the category. The data analysis was carried out applying the table1 package in R software version 4.2.0.

**Figure 4.** Sample of the second round of Delphi questions.

#### **Indicator name: "Mean DMFT"**

**Definition:** DMFT is the sum of the number of Decayed, Missing due to caries, and Filled Teeth in the permanent teeth. The mean number of DMFT is the sum of individual DMFT values divided by the sum of the population.

# Preferred data source:

At country level:

- Population-based surveys (Conducting a National oral health survey)
- -Routine surveillance systems

At global level:

- Compiled data by WHO Global Oral Health Data Bank (CAPP)

#### Related links:

WHO Global Oral Health Data Bank (CAPP): https://capp.mau.se/

Global Health Observatory indicator: <a href="https://www.who.int/data/gho/indicator-metadata-registry/imr-details/3812">https://www.who.int/data/gho/indicator-metadata-registry/imr-details/3812</a>

If we asked for this indicator to be collected <u>in your country</u> by the end of 2023 using the source that provides the most valid data nationally (e.g., oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done?

- Yes
- No
- I don't know/I am not in a position to answer this

# This indicator should be:

- A core indicator (should be collected in all countries)
- A complementary indicator (could be collected in certain countries)

• I don't know									
Rank the indicators in the <u>"oral health status"</u> category according to <u>their relevance</u> in your country (1 = the most relevant and the higher the number the less relevant the indicator is).									
	First	Second	Third	Fourth	Fifth	Sixth	Seventh		
Mean DMFT									

The data from optional open-ended questions at the end of each category were collected as comments. These comments were analysed as qualitative data using the qualitative content analysis method. The aim of the qualitative analysis was to understand the participants' further recommendations on new useful indicators not presented in the long list and to receive critical comments as well as constructive ones. The qualitative results will not be addressed in this thesis. The results of this study prioritized and refined a proposed set of indicators to draft the monitoring framework of the global oral health action plan.

#### 5. Results.

## 5.1. Scoping review.

The scoping review results demonstrated a total of 54 different oral health and oral health care indicators found in the literature. The findings were grouped into several categories, which are reported in the manuscript attached to this thesis.

# 5.2. Delphi process.

A total of 32 of the 33 GIEG members participated in both rounds of the Delphi. The results of the Delphi survey are demonstrated in tables 1-15, and the noticeable findings are highlighted below. However, how these results will be used in developing the monitoring framework will be under the control of the WHO, as this survey was done as a part of a bigger project.

## 5.2.1. First round of Delphi.

# 5.2.1.1. Relevance, feasibility, sensitivity.

Using the Likert rating system, results of the first round of Delphi showed little differentiation between indicators in most categories when rating relevance, feasibility, and sensitivity. Generally, among the indicators of all categories, the mean and median scores were high when talking about relevance; and reduced in feasibility and sensitivity measures. Two main criteria were used to remove the indicators for the second round. First, some of the indicators that were rated the lowest were removed. Second, some indicators were removed because they had similarities to other indicators, such as having overlaps in their definitions. Moreover, the final decisions were made by a combination of people in the WHO, IHPP, and McGill teams.

Little discrimination was made between the total scores among the "oral health status" indicators. The indicators with lower total scores were "prevalence of edentulism", "prevalence of severe periodontal disease", "number of new cases of oral cancer", and "self-reported oral health status". The "prevalence of edentulism" was removed for the second round, as its definition overlapped with the "missing teeth" definition. "Number of new cases of oral cancer" was also removed for the second round even though it was rated the same as "incidence rate of oral cancer". The "incidence rate" was preferred over the "number of new cases" because the proportion of number will be more helpful than the exact number of new cases, especially in small countries (Table 1).

In the "risk factors for oral health" category, the indicators with lower total scores were "prevalence of current betel quid use", "prevalence of smokeless tobacco use", and "per capita total alcohol consumption". Of which, "prevalence of smokeless tobacco use" was removed from the list of indicators for the second round since its definition overlapped the description of "prevalence of current tobacco use". Furthermore, the "prevalence of current tobacco use" and the "population using fluoridated toothpaste" were highly rated in this category (Table 2).

"UHC for oral health" is the next category classified under four subcategories. The first subcategory was "service and population coverage". "Availability of oral health care services" was the highest-rated indicator in this subcategory. The next subcategory is "financing". "Share of out-of-pocket payments spent on dental care" was the lowest-rated indicator in this subcategory. This indicator was removed for the second round because of its low rate and definition overlap with "out-of-pocket payment for oral health services". "Government per capita expenditure on oral health" was the highest-rated indicator in this subcategory. The ratings were similar for the indicators of the third subcategory ("medicines, equipment, devices, digital technology, and other health products"). The fourth subcategory was "workforce". "Oral health personnel" was the highest-rated indicator in the fourth subcategory (Table 3).

The next category comprised the "governance" indicators. Although "Noma" and "water fluoridation" were the lowest-rated indicators in this category, all the indicators remained for the second round. "Existence of a national oral health policy" and "oral health integration into the school health policy" were the highest-rated indicators in this category (Table 4).

The last category covered "evidence-informed policy" indicators. "Translation of research findings into policy and practice" was removed from this category for the second round since it was the lowest-rated indicator. On the contrary, "collection of oral health data" was the highest-rated indicator in this category (Table 5).

#### **5.2.1.2. Regions.**

Tables 6-10 show the total scores by region. It is difficult to draw inevitable conclusions as the number of participants from each region was small. The results showed that the same regions generally scored the highest and lowest across most categories of indicators. However, these results may suggest differences in rating approaches by each respondent rather than notable differences in ratings.

Table 1. First round of Delphi results. Relevance, feasibility, and sensitivity for "Oral health status" indicators

Indicator name Mean (SD) Median	Relevance (country level)	Relevance (regional level)	Relevance (global level)	Feasibility	Sensitivity	Total score
Mean DMFT	4.38 (1.26)	4.44 (1.11)	4.38 (1.16)	3.56 (1.63)	3.75 (1.52)	20.5 (4.94)
	5.00	5.00	5.00	4.00	4.00	22.5
Prevalence of untreated caries of permanent teeth	4.22 (1.52)	4.47 (1.05)	4.28 (1.33)	3.53 (1.67)	3.88 (1.50)	20.4 (5.06)
	5.00	5.00	5.00	4.00	4.00	23.0
Incidence rate of oral cancer (lip and oral cavity cancer) (age-standardized rate per 100,000 population)	4.22 (1.48)	4.44 (1.27)	4.38 (1.26)	3.53 (1.57)	3.78 (1.54)	20.3 (5.02)
	5.00	5.00	5.00	4.00	4.00	22.0
Prevalence of untreated caries of deciduous teeth in children	4.16 (1.51)	4.34 (1.04)	4.25 (1.05)	3.47 (1.70)	3.88 (1.48)	20.1 (5.02)
	5.00	5.00	4.00	4.00	4.00	22.0
Missing teeth	4.19 (1.47)	4.34 (1.26)	4.22 (1.26)	3.69 (1.55)	3.59 (1.52)	20.0 (5.21)
	5.00	5.00	5.00	4.00	4.00	22.0
Number of new cases of oral cancer (lip and oral cavity cancer) (all ages)	4.28 (1.46)	4.44 (1.27)	4.41 (1.27)	3.53 (1.57)	3.78 (1.52)	20.4 (4.97)
	5.00	5.00	5.00	4.00	4.00	22.0
Prevalence of edentulism	4.00 (1.55)	4.13 (1.56)	4.09 (1.57)	3.81 (1.51)	3.53 (1.54)	19.6 (5.58)
	5.00	5.00	5.00	4.00	4.00	21.5
Self-reported oral health status	4.09 (1.47)	4.06 (1.48)	4.00 (1.46)	3.81 (1.57)	3.53 (1.50)	19.5 (5.43)
	5.00	5.00	4.00	4.00	4.00	21.0
Prevalence of severe periodontal disease	4.13 (1.52)	4.28 (1.30)	4.13 (1.52)	3.28 (1.65)	3.63 (1.60)	19.4 (5.56)
	5.00	5.00	5.00	4.00	4.00	21.0

Table 2. First round of Delphi results. Relevance, feasibility, and sensitivity for "risk factors for oral health" indicators.

Indicator name Mean (SD) Median	Relevance (country level)	Relevance (regional level)	Relevance (global level)	Feasibility	Sensitivity	Total score
Prevalence of current tobacco use among persons aged 15 years and older	4.25 (1.57) 5.00	4.59 (1.10) 5.00	4.41 (1.36) 5.00	3.72 (1.67) 4.00	3.78 (1.68) 4.00	20.8 (5.21) 23.5
Population using fluoridated toothpaste on a daily basis	4.25 (1.55) 5.00	4.44 (1.32) 5.00	4.50 (1.27) 5.00	3.66 (1.52) 4.00	3.75 (1.44) 4.00	20.6 (5.39) 23.0

Per capita consumption of sugar	3.91 (1.82)	4.16 (1.53)	4.09 (1.53)	3.41 (1.81)	3.66 (1.79)	19.2 (7.45)
	5.00	5.00	5.00	4.00	4.00	22.5
Per capita availability of sugar	4.03 (1.69)	4.13 (1.52)	4.09 (1.51)	3.25 (1.76)	3.53 (1.61)	19.0 (6.50)
	5.00	5.00	5.00	4.00	4.00	21.0
Per capita total alcohol consumption, 15+ years (liters of pure alcohol per year)	3.72 (1.76)	3.91 (1.57)	4.00 (1.52)	3.22 (1.98)	3.44 (1.76)	18.3 (6.99)
	4.50	4.50	5.00	4.00	4.00	20.0
Prevalence of smokeless tobacco use among persons aged 15 years and older	3.59 (1.60)	3.91 (1.65)	3.78 (1.74)	2.97 (1.75)	3.16 (1.76)	17.4 (6.32)
	4.00	5.00	4.50	3.50	4.00	17.5
Prevalence of current betel quid use among persons aged 15 years and older	2.84 (1.74)	3.38 (1.72)	3.63 (1.72)	2.38 (1.58)	2.59 (1.68)	14.8 (6.36)
	3.00	4.00	4.00	2.50	3.00	15.5

**Table 3.** First round of Delphi results. Relevance, feasibility, and sensitivity for "UHC for oral health" indicators.

Indicator name Mean (SD) Median	Relevance (country level)	Relevance (regional level)	Relevance (global level)	Feasibility	Sensitivity	Total score				
Service and population coverage										
Availability of oral health care services in primary care facilities of the public health sector	4.31 (1.49)	4.38 (1.48)	4.38 (1.48)	4.09 (1.49)	4.03 (1.51)	21.2 (4.97)				
	5.00	5.00	5.00	5.00	5.00	23.0				
Inclusion of oral health interventions in public Health Benefit Packages	4.31 (1.49)	4.50 (1.27)	4.31 (1.49)	3.84 (1.55)	3.78 (1.50)	20.8 (4.89)				
	5.00	5.00	5.00	4.00	4.00	22.0				
Proportion of the population who visited an oral health care professional	4.22 (1.52)	4.31 (1.33)	4.28 (1.33)	3.75 (1.63)	3.88 (1.50)	20.4 (5.52)				
	5.00	5.00	5.00	4.00	4.00	23.0				
Prevalence of unmet oral health needs (and reasons for unmet needs)	4.31 (1.49)	4.31 (1.47)	4.31 (1.47)	3.59 (1.58)	3.69 (1.62)	20.2 (5.42)				
	5.00	5.00	5.00	4.00	4.00	23.0				
		Financing/financia	l protection							
Government per capita expenditure on oral health	4.16 (1.57)	4.28 (1.33)	4.25 (1.34)	3.72 (1.61)	3.84 (1.53)	20.3 (5.66)				
	5.00	5.00	5.00	4.00	4.00	22.0				
Out-of-pocket payment for oral health services, US\$ per capita	4.13 (1.48)	4.50 (0.984)	4.47 (0.983)	3.31 (1.64)	3.63 (1.60)	20.0 (5.19)				
	5.00	5.00	5.00	3.50	4.00	20.5				
Per capita expenditure on oral health	3.97 (1.53)	4.25 (1.34)	4.22 (1.34)	3.41 (1.64)	3.50 (1.57)	19.3 (5.84)				
	5.00	5.00	5.00	4.00	4.00	21.5				
Percentage of the population facing financial barriers to oral health care	4.09 (1.49)	4.19 (1.49)	4.13 (1.50)	3.44 (1.63)	3.50 (1.48)	19.3 (5.59)				
	5.00	5.00	5.00	4.00	4.00	21.5				

Share of out-of-pocket payments spent on dental care among people with catastrophic health spending	3.41 (1.74)	3.78 (1.52)	3.72 (1.65)	2.69 (1.64)	2.94 (1.70)	16.5 (6.61)			
	4.00	4.00	4.00	3.00	3.50	18.0			
Medicines, equipment, devices, digital technology, and other health products									
Affordability of fluoride toothpaste	3.69 (1.64)	4.06 (1.48)	4.13 (1.43)	3.28 (1.71)	3.38 (1.56)	18.5 (6.02)			
	4.00	5.00	5.00	4.00	4.00	19.0			
WHO EMLs dental preparations are listed in the national EML	3.66 (1.70)	3.84 (1.80)	3.88 (1.77)	3.72 (1.89)	3.16 (1.83)	18.3 (6.78)			
	4.00	5.00	5.00	4.50	4.00	20.0			
		Workfor	ce						
Oral health personnel (per 10,000 population)	4.16 (1.51)	4.28 (1.28)	4.19 (1.47)	4.06 (1.44)	3.78 (1.48)	20.5 (5.32)			
	5.00	5.00	5.00	4.00	4.00	22.5			
Annual graduates of oral health personnel, all cadres (per 10,000 population)	3.88 (1.58)	4.00 (1.41)	4.03 (1.51)	3.91 (1.57)	3.72 (1.59)	19.5 (5.79)			
	4.50	4.50	5.00	4.00	4.00	21.0			
Primary health care workers are trained to perform cost-effective interventions on oral health	3.63 (1.74)	3.81 (1.62)	3.88 (1.56)	3.03 (1.66)	3.13 (1.72)	17.5 (6.24)			
	4.00	4.00	4.00	3.00	3.50	19.0			

 Table 4. First round of Delphi results. Relevance, feasibility, and sensitivity for "governance" indicators.

Indicator name Mean (SD) Median	Relevance (country level)	Relevance (regional level)	Relevance (global level)	Feasibility	Sensitivity	Total score
Existence of a national oral health policy, strategy, or action plan	4.28 (1.49)	4.53 (1.24)	4.50 (1.27)	4.09 (1.49)	3.84 (1.51)	21.3 (4.75)
	[5.00	5.00	5.00	5.00	4.00	23.0
Oral health integration into the school health policy/programme	4.31 (1.53)	4.50 (1.24)	4.50 (1.24)	3.97 (1.43)	3.91 (1.40)	21.2 (5.03)
	5.00	5.00	5.00	4.00	4.00	23.0
National policy or legislation to contain all forms of tobacco consumption	4.28 (1.53)	4.41 (1.32)	4.28 (1.53)	4.00 (1.48)	3.81 (1.49)	20.8 (5.13)
	5.00	5.00	5.00	4.00	4.00	23.0
Presence of dedicated staff for oral diseases in the NCD Department or other Department of the Ministry of Health	4.06 (1.64) 5.00	4.41 (1.24) 5.00	4.47 (1.24) 5.00	3.91 (1.55) 4.50	3.84 (1.51) 4.00	20.7 (5.09) 23.0
National policies, strategies, or action plans with a specific policy goal or action towards reducing sugars intake	4.16 (1.55) 5.00	4.41 (1.34) 5.00	4.38 (1.34) 5.00	3.84 (1.51) 4.00	3.75 (1.52) 4.00	20.5 (5.09) 23.0
Implementation of tax on sugar-sweetened beverages (SSBs)	3.88 (1.77)	4.38 (1.13)	4.25 (1.37)	3.69 (1.77)	3.63 (1.72)	19.8 (5.75)
	5.00	5.00	5.00	4.50	4.00	22.5

Dental amalgam phase down policy	3.94 (1.63)	4.19 (1.28)	4.19 (1.49)	3.75 (1.67)	3.75 (1.61)	19.8 (6.04),
	4.50	5.00	5.00	4.00	4.00	21.0
Water fluoridation	3.22 (1.95)	3.53 (1.67)	3.69 (1.47)	3.13 (1.84)	2.78 (1.83)	16.3 (6.33)
	4.00	4.00	4.00	4.00	3.00	17.0
Noma recognized as a national public health	2.03 (1.49)	2.81 (1.77)	3.44 (1.70)	1.75 (1.76)	1.88 (1.88)	11.9 (6.83)
problem	2.00	3.00	4.00	1.00	1.00	12.0

Table 5. First round of Delphi results. Relevance, feasibility, and sensitivity for "evidence-informed policy" indicators.

Indicator name Mean (SD) Median	Relevance (country level)	Relevance (regional level)	Relevance (global level)	Feasibility	Sensitivity	Total score
Collection of oral health data using WHO NCD survey tools or	4.25 (1.48)	4.41 (1.27)	4.41 (1.27)	3.72 (1.55)	3.81 (1.51)	20.6 (4.85)
national oral health survey	5.00	5.00	5.00	4.00	4.00	22.0
Oral health indicators in routine health information systems	4.16 (1.55)	4.09 (1.71)	4.13 (1.72)	3.78 (1.52)	3.75 (1.48)	19.9 (5.48)
	5.00	5.00	5.00	4.00	4.00	22.5
National Monitoring Framework to track oral health policy	4.03 (1.64)	4.22 (1.45)	4.16 (1.65)	3.44 (1.64)	3.31 (1.79)	19.2 (5.97)
	5.00	5.00	5.00	4.00	4.00	20.5
Setting national oral health research agendas oriented towards	3.84 (1.53)	3.91 (1.51)	3.91 (1.63)	3.34 (1.54)	3.09 (1.57)	18.1 (5.15)
public health programmes and population-based interventions	4.00	4.00	4.00	4.00	4.00	19.0
Percentage of government funds for oral health research	3.81 (1.51)	3.88 (1.36)	3.88 (1.48)	3.22 (1.54)	3.28 (1.57)	18.1 (5.58)
	4.00	4.00	4.00	4.00	4.00	18.5
Translation of research findings into policy and practice	3.81 (1.55)	3.72 (1.71)	3.72 (1.69)	3.25 (1.52)	2.97 (1.62)	17.5 (5.98)
	4.00	4.50	4.00	3.50	3.00	18.0

Table 6. First round of Delphi results. "Oral health status" indicators-total score by region.

Indicator name Mean (SD)* Median*	African region (N=6)**	Eastern Mediterrane an Region (N=4)	European Region (N=7)	Region of the Americas (N=6)	South-East Asia Region (N=4)	Western Pacific Region (N=4)	Prefer not to answer (N=1)	Overall (N=32)
Mean DMFT	21.5 (2.26) 22.0	17.8 (5.44) 19.5	20.3 (7.34) 23.0	20.5 (5.54) 23.5	21.0 (4.55) 22.0	20.8 (4.19) 21.5	24.0 (NA) 24.0	20.5 (4.94) 22.5
Prevalence of untreated caries of permanent teeth	20.7 (5.57) 22.5	19.0 (6.06) 21.5	19.7 (5.09) 23.0	20.7 (4.46) 22.0	20.3 (8.18) 24.0	21.0 (3.56) 21.5	25.0 (NA) 25.0	20.4 (5.06) 23.0
Incidence rate of oral cancer (lip and oral cavity cancer) (age-standardized rate per 100,000 population)	21.8 (2.32) 21.5	18.3 (6.18) 20.0	22.1 (5.40) 24.0	20.0 (6.69)	20.0 (6.88) 22.5	18.8 (2.75) 18.5	17.0 (NA) 17.0	20.3 (5.02) 22.0

Prevalence of untreated caries of deciduous teeth in children	20.7 (5.50)	17.0 (5.48)	19.3 (4.72)	21.8 (4.22)	19.5 (7.85)	20.5 (3.87)	25.0 (NA)	20.1 (5.02)
	22.5	17.5	20.0	24.0	22.5	20.5	25.0	22.0
Missing teeth	22.2 (2.56)	18.3 (6.65)	18.7 (5.77)	18.5 (6.47)	19.8 (6.85)	22.3 (2.36)	25.0 (NA)	20.0 (5.21)
	23.5	19.0	20.0	18.5	22.0	23.0	25.0	22.0
Number of new cases of oral cancer (lip and oral cavity cancer) (all ages)	21.3 (2.73) 21.5	19.3 (6.50) 21.0	21.7 (5.28) 23.0	19.7 (6.83) 23.0	19.8 (6.85) 22.0	19.0 (2.00) 20.0	24.0 (NA) 24.0	20.4 (4.97) 22.0
Prevalence of edentulism	20.2 (5.34)	19.0 (6.16)	19.1 (6.12)	19.3 (6.35)	20.3 (6.95)	22.0 (2.16)	10.0 (NA)	19.6 (5.58)
	21.0	21.0	22.0	21.5	23.0	22.5	10.0	21.5
Self-reported oral health status	22.2 (2.86)	18.5 (6.03)	19.1 (6.67)	18.5 (4.68)	14.0 (6.48)	23.0 (2.45)	24.0 (NA)	19.5 (5.43)
	24.0	20.0	22.0	18.5	14.5	23.5	24.0	21.0
Prevalence of severe periodontal disease	20.0 (5.55)	17.0 (5.29)	19.7 (4.68)	18.7 (7.84)	19.5 (7.85)	20.5 (3.70)	24.0 (NA)	19.4 (5.56)
	21.5	18.0	21.0	22.0	22.5	21.0	24.0	21.0

<sup>\*</sup>In each cell, the first figure in the top row is the mean amongst the scores from the participants. the second figure in the top row (in brackets) is the standard-deviation (SD) amongst the scores from the participants. In each cell, the figure in the bottom row is the median amongst the scores from the participants. As an example, for "mean DMFT" in African region, the mean score was 21.5, the SD was 2.26, and the median score was 22.0 amongst the participants. \*\* 'N' refers to the number of participants in each region. The same is true for tables 7-10.

Table 7. First round of Delphi results. "Risk factors for oral health" indicators total score by region.

Indicator name Mean (SD) Median	African region (N=6)	Eastern Mediterran ean Region (N=4)	European Region (N=7)	Region of the Americas (N=6)	South-East Asia Region (N=4)	Western Pacific Region (N=4)	Prefer not to answer (N=1)	Overall (N=32)
Prevalence of current tobacco use among persons aged 15 years and older	22.0 (4.05) 23.5	18.3 (6.99) 19.0	22.4 (5.53) 25.0	21.3 (5.32) 24.5	18.8 (7.09) 20.0	20.8 (3.77) 21.0]	16.0 (NA) 16.0	20.8 (5.21) 23.5
Population using fluoridated toothpaste on a daily basis	21.8 (2.32)	16.0 (6.06)	21.4 (6.00)	19.2 (6.88)	20.5 (7.05)	23.3 (2.06)	24.0 (NA)	20.6 (5.39)
	23.0	15.5	23.0	21.5 [	23.5	23.5	24.0	23.0
Per capita consumption of sugar	21.2 (4.83)	20.5 (7.05)	21.9 (7.03)	13.5 (11.6)	19.3 (7.80)	19.3 (2.75)	18.0 (NA)	19.2 (7.45)
	23.0	23.5	25.0	15.5	22.0	19.5	18.0	22.5
Per capita availability of sugar	20.7 (4.93)	19.0 (8.83)	21.6 (5.53)	17.0 (9.59)	16.3 (7.68)	18.3 (2.22)	18.0 (NA)	19.0 (6.50)
	22.0	22.5	24.0	20.0	16.0	18.0	18.0	21.0
Per capita total alcohol consumption, 15+ years (liters of pure alcohol per year)	20.3 (5.05)	13.0 (5.42)	22.1 (5.67)	17.2 (10.0)	19.3 (7.80)	17.5 (2.38)	6.00 (NA)	18.3 (6.99)
	21.5	11.0	25.0	20.0	22.0	17.5	6.00	20.0
Prevalence of smokeless tobacco use among persons aged 15 years and older	20.0 (4.94)	15.8 (7.85)	18.6 (7.04)	16.3 (8.36)	15.0 (7.79)	17.5 (1.73)	16.0 (NA)	17.4 (6.32)
	21.0	16.0	23.0	18.0	14.0	17.0	16.0	17.5
Prevalence of current betel quid use among persons aged 15 years and older	15.5 (4.85)	14.5 (8.35)	14.0 (5.83)	11.8 (8.98)	18.0 (6.78)	18.0 (2.45)	10.0 (NA)	14.8 (6.36)
	14.5	15.5	10.0	10.0	20.5	17.5	10.0	15.5

**Table 8.** First round of Delphi results. "UHC for oral health" indicators total score by region.

Indicator name Mean (SD) Median	African region (N=6)	Eastern Mediterrane an Region (N=4)	European Region (N=7)	Region of the Americas (N=6)	South-East Asia Region (N=4)	Western Pacific Region (N=4)	Prefer not to answer (N=1)	Overall (N=32)		
	Service and population coverage									
Availability of oral health care services in primary care facilities of the public health sector	23.7 (1.97) 24.5	20.3 (7.09) 23.0	21.6 (5.53) 24.0	20.2 (5.64) 23.0	17.0 (6.06) 17.5	22.8 (1.71) 22.5	24.0 (NA) 24.0	21.2 (4.97) 23.0		
Inclusion of oral health interventions in public health benefit package	22.8 (3.06) 24.5	19.5 (6.45) 22.0	22.1 (5.55) 25.0	20.5 (4.85) 22.0	17.8 (5.80) 18.5	22.0 (0.816) 22.0	12.0 (NA) 12.0	20.8 (4.89) 22.0		
Proportion of the population who visited an oral health care professional	21.5 (2.59) 21.5	19.5 (7.14) 21.5	21.4 (6.08) 24.0	18.7 (7.06) 19.5	19.3 (7.80) 22.0	21.0 (4.08) 22.5	24.0 (NA) 24.0	20.4 (5.52) 23.0		
Prevalence of unmet oral health needs (and reasons for unmet needs)	21.3 (2.80) 22.0	20.3 (6.85) 23.5	22.1 (5.43) 24.0	19.2 (7.28) 22.0	17.5 (7.94) 18.5	18.5 (1.29) 18.5	24.0 (NA) 24.0	20.2 (5.42) 23.0		
		Finar	cing/financial	protection						
Government per capita expenditure on oral health	21.3 (3.56) 22.5	18.3 (7.23) 20.0	22.0 (6.27) 25.0	19.8 (6.82) 23.0	19.5 (6.66) 21.5	18.0 (5.42) 20.0	24.0 (NA) 24.0	20.3 (5.66) 22.0		
Out-of-pocket payment for oral health services, US\$ per capita	20.8 (4.62) 22.0	17.5 (5.74) 18.0	21.1 (5.34) 23.0	21.2 (7.11) 24.5	19.8 (6.85) 22.0	18.3 (1.26) 18.0	19.0 (NA) 19.0	20.0 (5.19) 20.5		
Per capita expenditure on oral health	21.3 (3.27) 22.5	18.0 (6.27) 18.5	21.7 (5.28) 23.0	18.0 (9.01) 22.0	18.3 (6.24) 19.0	15.8 (3.86) 17.5	23.0 (NA) 23.0	19.3 (5.84) 21.5		
Percentage of the population facing financial barriers to oral health care	20.7 (4.13) 22.0	18.3 (6.40) 19.0	21.6 (5.22) 23.0	18.7 (7.06) 19.5	20.0 (8.04) 23.5	17.0 (1.41) 16.5	11.0 (NA) 11.0	19.3 (5.59) 21.5		
Share of out-of-pocket payments spent on dental care among people with catastrophic health spending	19.8 (4.17) 20.5	16.0 (6.06) 15.0	18.7 (6.87) 21.0	13.7 (8.14) 13.0	17.8 (6.13) 18.0	14.8 (5.12) 15.0	3.00 (NA) 3.00	16.5 (6.61) 18.0		
	Medicines, equipment, devices, digital technology, and other health products									
Affordability of fluoride toothpaste	21.2 (2.64) 22.0	18.8 (7.50) 20.0	17.0 (7.90) 19.0	17.5 (6.77) 17.5	17.8 (6.13) 18.0	19.0 (6.68) 20.5	20.0 (NA) 20.0	18.5 (6.02) 19.0		
WHO EMLs dental preparations are listed in the national EML	22.2 (1.83) 22.5	19.0 (7.35) 20.5	16.1 (7.43) 18.0	19.2 (7.19) 22.5	15.3 (8.26) 14.5	20.8 (3.10) 20.0	3.00 (NA) 3.00	18.3 (6.78) 20.0		
			Workforce	2						

Oral health personnel (per 10,000	22.8 (2.32)	17.0 (6.22)	20.7 (6.13)	20.0 (6.69)	19.3 (7.80)	21.3 (1.26)	23.0 (NA)	20.5 (5.32)
population)	23.5	17.0	23.0	23.5	22.0	21.0	23.0	22.5
Annual graduates of oral health personnel,	22.7 (2.25)	14.8 (7.85)	21.1 (5.98)	18.7 (7.34)	19.0 (6.38)	18.5 (3.87)	20.0 (NA)	19.5 (5.79)
all cadres (per 10,000 population	23.0	14.0	23.0	20.0	20.5	18.5	20.0	21.0
Primary health care workers are trained to perform cost-effective interventions on oral health	21.3 (3.08) 21.5	20.0 (7.07) 22.5	14.1 (7.34) 12.0	17.0 (7.18) 16.5	16.0 (7.79) 15.0	16.5 (3.32) 17.5	20.0 (NA) 20.0	17.5 (6.24) 19.0

 Table 9. First round of Delphi results. "Governance" indicators total score by region.

Indicator name Mean (SD) Median	African region (N=6)	Eastern Mediterranea n Region (N=4)	European Region (N=7)	Region of the Americas (N=6)	South-East Asia Region (N=4)	Western Pacific Region (N=4)	Prefer not to answer (N=1)	Overall (N=32)
Existence of a national oral health policy, strategy, or action plan	23.0 (2.10)	19.5 (6.66)	21.6 (5.35)	20.5 (5.96)	20.5 (7.05)	21.3 (1.50)	23.0 (NA)	21.3 (4.75)
	23.5	21.5	23.0	23.5	23.5	21.0	23.0	23.0
Oral health integration into the school health policy/programme	22.7 (2.25)	20.3 (7.09)	21.0 (6.00)	20.3 (6.19)	20.5 (7.05)	21.8 (2.75)	23.0 (NA)	21.2 (5.03)
	23.0	23.0	23.0	23.5	23.5	21.5	23.0	23.0
National policy or legislation to contain all forms of tobacco consumption	21.5 (4.14)	18.3 (6.99)	22.1 (6.28)	20.7 (4.93)	20.5 (7.05)	20.5 (3.32)	20.0 (NA)	20.8 (5.13)
	22.5	19.0	25.0	22.5	23.5	21.5	20.0	23.0
Presence of dedicated staff for oral diseases in the NCD Department or other Department of the Ministry of Health	22.3 (1.97) 23.0	19.0 (6.38) 20.5	21.1 (5.43) 23.0	20.0 (7.04) 24.0	20.8 (7.23) 24.0	19.8 (3.77) 20.0	22.0 (NA) 22.0	20.7 (5.09) 23.0
National policies, strategies, or action plans with a specific policy goal or action towards reducing sugars intake	22.0 (4.05) 23.5	19.5 (7.14) 21.5	22.1 (5.49) 25.0	20.3 (5.43) 22.5	19.8 (6.85) 22.0	18.0 (3.37) 16.5	19.0 (NA) 19.0	20.5 (5.09) 23.0
Implementation of tax on sugar-	22.0 (4.29)	16.3 (6.34)	21.9 (5.55)	22.0 (4.47)	19.8 (6.85)	16.0 (4.97)	9.00 (NA)	19.8 (5.75)
sweetened beverages (SSBs)	23.5	15.0	25.0	23.5	22.0	17.5	9.00	22.5
Dental amalgam phase down policy	21.7 (2.42)	15.5 (4.51)	20.9 (6.36)	18.7 (9.93)	20.5 (7.05)	20.5 (3.70)	20.0 (NA)	19.8 (6.04)
	21.0	15.5	25.0	23.5	23.5	20.5	20.0	21.0
Water fluoridation	17.8 (3.60)	11.3 (5.97)	18.9 (6.67)	17.7 (5.99)	14.3 (10.4)	14.0 (4.97)	20.0 (NA)	16.3 (6.33)
	18.0	9.00	20.0	16.0	14.5	14.0	20.0	17.0
Noma recognized as a national public health problem	18.8 (4.92)	13.3 (6.75)	8.86 (4.63)	10.3 (7.47)	13.5 (8.27)	9.25 (2.63)	0 (NA)	11.9 (6.83)
	19.0	12.0	10.0	12.0	13.5	8.50	0 [0, 0]	12.0

**Table 10.** First round of Delphi results. "Evidence-informed policy" indicators total score by region.

Indicator name Mean (SD) Median	African region (N=6)	Eastern Mediterrane an Region (N=4)	European Region (N=7)	Region of the Americas (N=6)	South-East Asia Region (N=4)	Western Pacific Region (N=4)	Prefer not to answer (N=1)	Overall (N=32)
Collection of oral health data using WHO NCD survey tools or national oral health survey	22.0 (3.69)	19.8 (6.85)	20.6 (5.22)	20.5 (6.06)	19.5 (6.86)	21.0 (1.83)	19.0 (NA)	20.6 (4.85)
	23.5	22.0	22.0	23.5	21.5	21.0	19.0	22.0
Oral health indicators in routine health information systems	22.5 (2.51) 23.0	17.5 (8.10) 17.5	20.9 (5.24) 23.0	20.5 (5.54) 23.0	16.5 (6.35) 15.5	18.3 (6.24) 19.0	24.0 (NA) 24.0	19.9 (5.48) 22.5
National Monitoring Framework to track oral health policy	22.0 (2.10) 22.5	17.5 (6.45) 17.5	17.3 (9.23) 22.0	20.3 (5.89) 23.0	18.3 (6.24) 19.0	18.3 (4.03) 18.0	22.0 (NA) 22.0	19.2 (5.97) 20.5
Setting national oral health research agendas oriented towards public health programmes and population-based interventions	21.5 (2.35)	17.5 (6.25)	17.6 (4.61)	19.3 (5.57)	16.5 (8.74)	14.5 (2.65)	17.0 (NA)	18.1 (5.15)
	23.0	17.5	20.0	19.0	16.5	15.0	17.0	19.0
Percentage of government funds for oral health research	21.0 (2.90)	16.0 (7.26)	18.4 (5.00)	18.2 (7.60)	17.8 (6.60)	14.8 (5.12)	20.0 (NA)	18.1 (5.58)
	22.0	15.5	19.0	19.0	18.0	15.0	20.0	18.5
Translation of research findings into policy and practice	20.7 (3.01)	15.8 (7.23)	18.6 (5.94)	18.2 (7.52)	16.8 (8.50)	12.8 (2.22)	15.0 (NA)	17.5 (5.98)
	21.0	14.0	19.0	18.5	17.0	13.0	15.0	18.0

# 5.2.2. Second round of Delphi.

The second-round results suggested which indicators could be the core or complementary elements of the monitoring framework. The results also indicated the respondents' opinions on the ability to collect data for each indicator by 2030. Furthermore, indicators were ranked in each category/subcategory by respondents (Tables 11-15).

In the "oral health status" category, "DMFT" was ranked first with 23 votes out of 32, which was quite extreme. No one ranked it in the middle, and four respondents ranked it seventh. The large majority of respondents believed most "oral health status" indicators to be core, with more of the mixed opinions for "self-reported oral health". Also, around half of the respondents considered data collection to be feasible by 2030 for most indicators in this category, except for "consumption of sugar" (Table 11).

The next category was "risk factors for oral health". "Population using fluoridated toothpaste" was ranked first by 40.6% of the respondents, which was very close to the percentage of respondents who ranked it second (37.5%). No one ranked it to be last. In general, respondents believed most indicators were core, although opinions varied on "per capita total alcohol consumption". However, "prevalence of current betel quid use" was considered a complementary indicator by the majority of the respondents. There was a mixed opinion about the feasibility of data collection for most indicators. Although more than half of the respondents said data collection would be feasible on the "population using fluoridated toothpaste". On the contrary, 56.2% of the respondents believed collecting data on the "prevalence of current betel quid use" will not be feasible by 2030 (Table 12).

The "UHC for oral health" category was classified into four subcategories. The first subcategory was "service and population coverage". In which "inclusion of oral health interventions in public Health Benefit Packages" was ranked first. Most respondents considered most indicators of this subcategory to be core, but the opinions varied on the "proportion of the population who visited an oral health care professional". Moreover, most respondents believed data collection on "inclusion of oral health interventions in public Health Benefit Packages" and "availability of oral health care services in primary care facilities" to be feasible by 2030.

In the "financing" subcategory, "government per capita expenditure on oral health" ranked first, although the ranking scores were close to "per capita expenditure on oral health", which

was ranked second. These two indicators were also considered core indicators by most respondents. Furthermore, collecting data on "government per capita expenditure on oral health" was considered to be feasible by 2030 in this subcategory. "Medicines, equipment, devices, digital technology, and other health products" was the next subcategory that covered two indicators. Between them, "WHO EMLs dental preparations" was ranked first. Respondents believed both indicators were core and collecting data will be feasible for both indicators by 2030. The fourth subcategory was "workforce". The majority of respondents ranked "oral health personnel" first in this category. They also believed "oral health personnel" and "annual graduates of oral health personnel" were core indicators, and they will be able to collect data on them by 2030 (Table 13).

In the "governance" category, "existence of a national oral health policy, strategy, or action plan" was ranked first. No one ranked it to be last. The majority of respondents considered indicators of this category to be core, except for "water fluoridation", "dental amalgam phase down policy", and "Noma", with a greater amount of mixed opinion regarding "dental amalgam phase down policy". Moreover, many survey participants believed data collection on the indicators of this category could be accomplished by 2030, except for "Noma" (Table 14).

The last category comprised "evidence-informed policy" indicators. Among those, "oral health indicators in routine health information systems" was ranked first. Respondents stated three indicators of this category to be core: "oral health indicators in routine health information systems", "collection of oral health data" and "national Monitoring Framework to track oral health policy". They believed data collection on "oral health indicators in routine health information systems" to be feasible by 2030. The participants had a more mixed opinion about the feasibility of gathering data on other indicators in this category (Table 15).

**Table 11.** Second round of Delphi results. Results for "oral health status" indicators.

Indicator name	Ability to collect by 2023	Core/Complementary	Rank within group	Mean/median rank within group
Mean DMFT	Yes: 18 (56.2%) No: 5 (15.6%) I don't know: 9 (28.1%)	Core: 26 (81.2%) Complementary: 5 (15.6%) I don't know: 1 (3.1%)	First: 23 (71.9%) Second: 2 (6.2%) Third: 2 (6.2%) Fourth: 0 (0%) Fifth: 0 (0%) Sixth: 1 (3.1%) Seventh: 4 (12.5%)	Mean (SD): 2.09 (2.13) Median: 1.00 Overall rank: 1
Prevalence of untreated caries of deciduous teeth in children	Yes: 17 (53.1%) No: 4 (12.5%) I don't know: 11 (34.4%)	Core: 25 (78.1%) Complementary: 5 (15.6%) I don't know: 2 (6.2%)	First: 5 (15.6%) Second: 9 (28.1%) Third: 10 (31.2%) Fourth: 3 (9.4%) Fifth: 2 (6.2%) Sixth: 1 (3.1%) Seventh: 2 (6.2%)	Mean (SD): 2.97 (1.62) Median: 3.00 Overall rank: 2
Prevalence of untreated caries of permanent teeth	Yes: 17 (53.1%) No: 5 (15.6%) I don't know: 10 (31.2%)	Core: 26 (81.2%) Complementary: 5 (15.6%) I don't know: 1 (3.1%)	First: 6 (18.8%) Second: 9 (28.1%) Third: 7 (21.9%) Fourth: 2 (6.2%) Fifth: 5 (15.6%) Sixth: 3 (9.4%) Seventh: 0 (0%)	Mean (SD): 3.00 (1.63) Median: 3.00 <b>Overall rank: 3</b>
Prevalence of severe periodontal disease	Yes: 12 (37.5%) No: 10 (31.2%) I don't know: 10 (31.2%)	Core: 25 (78.1%) Complementary: 7 (21.9%) I don't know: 0 (0%)	First: 4 (12.5%) Second: 6 (18.8%) Third: 8 (25.0%) Fourth: 4 (12.5%) Fifth: 6 (18.8%) Sixth: 2 (6.2%) Seventh: 2 (6.2%)	Mean (SD): 3.50 (1.72) Median: 3.00 Overall rank: 4
Missing teeth	Yes: 17 (53.1%) No: 6 (18.8%) I don't know: 9 (28.1%)	Core: 24 (75.0%) Complementary: 7 (21.9%) I don't know: 1 (3.1%)	First: 6 (18.8%) Second: 3 (9.4%) Third: 6 (18.8%) Fourth: 7 (21.9%) Fifth: 4 (12.5%) Sixth: 3 (9.4%) Seventh: 3 (9.4%)	Mean (SD): 3.66 (1.89) Median: 4.00 <b>Overall rank: 5</b>

Incidence rate of oral cancer	Yes: 15 (46.9%)	Core: 21 (65.6%)	First: 7 (21.9%)	Mean (SD): 4.03 (2.18)
	No: 5 (15.6%)	Complementary: 10 (31.2%)	Second: 2 (6.2%)	Median: 4.00
	I don't know: 12 (37.5%)	I don't know: 1 (3.1%)	Third: 3 (9.4%)	Overall rank: 6
			Fourth: 7 (21.9%)	
			Fifth: 3 (9.4%)	
			Sixth: 4 (12.5%)	
			Seventh: 6 (18.8%)	
Self-reported oral health			First: 4 (12.5%)	
	Yes: 17 (53.1%)	Core: 18 (56.2%)	Second: 8 (25.0%)	Mean (SD): 4.19 (2.21)
	No: 3 (9.4%)	Complementary: 13 (40.6%)	Third: 1 (3.1%)	Median: 5.00
	I don't know: 12 (37.5%)	I don't know: 1 (3.1%)	Fourth: 2 (6.2%)	Overall rank: 7
			Fifth: 5 (15.6%)	
			Sixth: 6 (18.8%)	
			Seventh: 6 (18.8%)	

Table 12. Second round of Delphi results. Results for "risk factors for oral health" indicators.

Indicator name	Ability to collect by 2023	Core/Complementary	Rank within group	Mean/median rank within group
Population using fluoridated toothpaste on a daily basis	Yes: 17 (53.1%) No: 3 (9.4%) I don't know: 12 (37.5%)	Core: 24 (75.0%) Complementary: 6 (18.8%) I don't know: 2 (6.2%)	First: 13 (40.6%) Second: 12 (37.5%) Third: 5 (15.6%) Fourth: 2 (6.2%) Fifth: 0 (0%) Sixth: 0 (0%)	Mean (SD): 1.88 (0.907) Median: 2.00 <b>Overall rank: 1</b>
Per capita consumption of sugar	Yes: 11 (34.4%) No: 5 (15.6%) I don't know: 16 (50.0%)	Core: 21 (65.6%) Complementary: 8 (25.0%) I don't know: 3 (9.4%)	First: 15 (46.9%) Second: 7 (21.9%) Third: 5 (15.6%) Fourth: 2 (6.2%) Fifth: 1 (3.1%) Sixth: 2 (6.2%)	Mean (SD): 2.16 (1.48) Median: 2.00 <b>Overall rank: 2</b>
Prevalence of current tobacco use among persons aged 15 years and older	Yes: 16 (50.0%) No: 3 (9.4%) I don't know: 13 (40.6%)	Core: 22 (68.8%) Complementary: 8 (25.0%) I don't know: 2 (6.2%)	First: 13 (40.6%) Second: 5 (15.6%) Third: 3 (9.4%) Fourth: 6 (18.8%) Fifth: 4 (12.5%) Sixth: 1 (3.1%)	Mean (SD): 2.56 (1.63) Median: 2.00 <b>Overall rank: 3</b>

Per capita availability of sugar	Yes: 14 (43.8%) No: 4 (12.5%) I don't know: 14 (43.8%)	Core: 19 (59.4%) Complementary: 10 (31.2%) I don't know: 3 (9.4%)	First: 7 (21.9%) Second: 7 (21.9%) Third: 7 (21.9%) Fourth: 1 (3.1%) Fifth: 4 (12.5%) Sixth: 6 (18.8%)	Mean (SD): 3.19 (1.84) Median: 3.00 <b>Overall rank: 4</b>
Per capita total alcohol consumption, 15+ years (liters of pure alcohol per year)	Yes: 16 (50.0%) No: 5 (15.6%) I don't know: 11 (34.4%)	Core: 16 (50.0%) Complementary: 14 (43.8%) I don't know: 2 (6.2%)	First: 7 (21.9%) Second: 3 (9.4%) Third: 3 (9.4%) Fourth: 6 (18.8%) Fifth: 9 (28.1%) Sixth: 4 (12.5%)	Mean (SD): 3.59 (1.78) Median: 4.00 <b>Overall rank: 5</b>
Prevalence of current betel quid use among persons aged 15 years and older	Yes: 4 (12.5%) No: 18 (56.2%) I don't know: 10 (31.2%)	Core: 3 (9.4%) Complementary: 24 (75.0%) I don't know: 5 (15.6%)	First: 2 (6.2%) Second: 3 (9.4%) Third: 3 (9.4%) Fourth: 2 (6.2%) Fifth: 2 (6.2%) Sixth: 20 (62.5%)	Mean (SD): 4.84 (1.72) Median: 6.00 <b>Overall rank: 6</b>

 Table 13. Second round of Delphi results. Results for "UHC for oral health" indicators.

Indicator name	Ability to collect by 2023	Core/Complementary	Rank within group	Mean/median rank within subcategory
	Service at	nd population coverage		
Inclusion of oral health interventions in public Health Benefit Packages	Yes: 21 (65.6%) No: 3 (9.4%) I don't know: 8 (25.0%)	Core: 25 (78.1%) Complementary: 6 (18.8%) I don't know: 1 (3.1%)	First: 18 (56.2%) Second: 7 (21.9%) Third: 3 (9.4%) Fourth: 4 (12.5%)	Mean (SD): 1.78 (1.07) Median: 1.00 <b>Overall rank: 1</b>
Availability of oral health care services in primary care facilities of the public health sector	Yes: 21 (65.6%) No: 2 (6.2%) I don't know: 9 (28.1%)	Core: 23 (71.9%) Complementary: 7 (21.9%) I don't know: 2 (6.2%)	First: 15 (46.9%) Second: 13 (40.6%) Third: 1 (3.1%) Fourth: 3 (9.4%)	Mean (SD): 1.75 (0.916) Median: 2.00 <b>Overall rank: 2</b>
Prevalence of unmet oral health needs (and reasons for unmet needs)	Yes: 15 (46.9%) No: 5 (15.6%) I don't know: 12 (37.5%)	Core: 22 (68.8%) Complementary: 10 (31.2%) I don't know: 0 (0%)	First: 7 (21.9%) Second: 9 (28.1%) Third: 6 (18.8%) Fourth: 10 (31.2%)	Mean (SD): 2.59 (1.16) Median: 2.50 <b>Overall rank: 3</b>
Proportion of the population who visited an oral health care professional	Yes: 16 (50.0%) No: 5 (15.6%) I don't know: 11 (34.4%)	Core: 18 (56.2%) Complementary: 12 (37.5%) I don't know: 2 (6.2%)	First: 5 (15.6%) Second: 7 (21.9%) Third: 14 (43.8%) Fourth: 6 (18.8%)	Mean (SD): 2.66 (0.971) Median: 3.00 <b>Overall rank: 4</b>
	Financin	g/Financial protection		

Government per capita expenditure on oral health	Yes: 17 (53.1%) No: 4 (12.5%) I don't know: 11 (34.4%)	Core: 24 (75.0%) Complementary: 7 (21.9%) I don't know: 1 (3.1%)	First: 15 (46.9%) Second: 8 (25.0%) Third: 6 (18.8%) Fourth: 3 (9.4%)	Mean (SD): 1.91 (1.03) Median: 2.00 <b>Overall rank: 1</b>
Per capita expenditure on oral health	Yes: 14 (43.8%) No: 4 (12.5%) I don't know: 14 (43.8%)	Core: 19 (59.4%) Complementary: 11 (34.4%) I don't know: 2 (6.2%)	First: 15 (46.9%) Second: 8 (25.0%) Third: 4 (12.5%) Fourth: 5 (15.6%)	Mean (SD): 1.97 (1.12) Median: 2.00 <b>Overall rank: 2</b>
Out-of-pocket payment for oral health services	Yes: 10 (31.2%) No: 8 (25.0%) I don't know: 14 (43.8%)	Core: 13 (40.6%) Complementary: 16 (50.0%) I don't know: 3 (9.4%)	First: 9 (28.1%) Second: 12 (37.5%) Third: 7 (21.9%) Fourth: 4 (12.5%)	Mean (SD): 2.19 (0.998) Median: 2.00 Overall rank: 3
Percentage of the population facing financial barriers to oral health care	Yes: 8 (25.0%) No: 9 (28.1%) I don't know: 15 (46.9%)	Core: 13 (40.6%) Complementary: 18 (56.2%) I don't know: 1 (3.1%)	First: 8 (25.0%) Second: 7 (21.9%) Third: 6 (18.8%) Fourth: 11 (34.4%)	Mean (SD): 2.63 (1.21) Median: 3.00 <b>Overall rank: 4</b>
	Medicines, equipment, devi	ces, digital technology, and other h		
WHO EMLs dental preparations are listed in the national EML	Yes: 18 (56.2%) No: 2 (6.2%) I don't know: 12 (37.5%)	Core: 18 (56.2%) Complementary: 12 (37.5%) I don't know: 2 (6.2%)	First: 23 (71.9%) Second: 9 (28.1%)	Mean (SD): 1.28 (0.457) Median: 1.00 Overall rank: 1
Affordability of fluoride toothpaste	Yes: 16 (50.0%) No: 7 (21.9%) I don't know: 9 (28.1%)	Core: 17 (53.1%) Complementary: 13 (40.6%) I don't know: 2 (6.2%)	First: 13 (40.6%) Second: 19 (59.4%)	Mean (SD): 1.59 (0.499) Median: 2.00 <b>Overall rank: 2</b>
	(2017/0)	Workforce		0 (01444 14444) 2
Oral health personnel (per 10,000 population)	Yes: 22 (68.8%) No: 1 (3.1%) I don't know: 9 (28.1%)	Core: 25 (78.1%) Complementary: 5 (15.6%) I don't know: 2 (6.2%)	First: 25 (78.1%) Second: 5 (15.6%) Third: 2 (6.2%)	Mean (SD): 1.28 (0.581) Median: 1.00 <b>Overall rank: 1</b>
Primary health care workers are trained to perform cost-effective interventions on oral health	Yes: 14 (43.8%) No: 7 (21.9%) I don't know: 11 (34.4%)	Core: 14 (43.8%) Complementary: 16 (50.0%) I don't know: 2 (6.2%)	First: 12 (37.5%) Second: 11 (34.4%) Third: 9 (28.1%)	Mean (SD): 1.91 (0.818) Median: 2.00 <b>Overall rank: 2</b>
Annual graduates of oral health personnel, all cadres (per 10,000 population)	Yes: 20 (62.5%) No: 3 (9.4%) I don't know: 9 (28.1%)	Core: 18 (56.2%) Complementary: 13 (40.6%) I don't know: 1 (3.1%)	First: 3 (9.4%) Second: 13 (40.6%) Third: 16 (50.0%)	Mean (SD): 2.41 (0.665) Median: 2.50 <b>Overall rank: 3</b>

**Table 14.** Second round of Delphi results. Results for "governance" indicators.

Indicator name	Ability to collect by 2023	core/complementary	Rank within group	Mean/median rank within group
Existence of a national oral health policy, strategy, or action plan	Yes: 23 (71.9%) No: 1 (3.1%) I don't know: 8 (25.0%)	Core: 27 (84.4%) Complementary: 3 (9.4%) I don't know: 2 (6.2%)	First: 17 (53.1%) Second: 8 (25.0%) Third: 2 (6.2%) Fourth: 3 (9.4%) Fifth: 1 (3.1%) Sixth: 0 (0%) Seventh: 1 (3.1%) Eighth: 0 (0%) Ninth: 0 (0%)	Mean (SD): 1.97 (1.45) Median: 1.00 <b>Overall rank: 1</b>
Presence of dedicated staff for oral diseases in the NCD Department or other Department of the Ministry of Health	Yes: 23 (74.2%) No: 0 (0%) I don't know: 8 (25.8%)	Core: 19 (59.4%) Complementary: 11 (34.4%) I don't know: 2 (6.2%)	First: 16 (50.0%) Second: 5 (15.6%) Third: 3 (9.4%) Fourth: 2 (6.2%) Fifth: 2 (6.2%) Sixth: 1 (3.1%) Seventh: 0 (0%) Eighth: 3 (9.4%) Ninth: 0 (0%)	Mean (SD): 2.59 (2.26) Median: 1.5 Overall rank: 2
National policies, strategies, or action plans with a specific policy goal or action towards reducing sugars intake	Yes: 19 (59.4%) No: 5 (15.6%) I don't know: 8 (25.0%)	Core: 20 (62.5%) Complementary: 11 (34.4%) I don't know: 1 (3.1%)	First: 9 (28.1%) Second: 5 (15.6%) Third: 6 (18.8%) Fourth: 3 (9.4%) Fifth: 3 (9.4%) Sixth: 3 (9.4%) Seventh: 2 (6.2%) Eighth: 1 (3.1%) Ninth: 0 (0%)	Mean (SD): 3.25 (2.11) Median: 3.00 <b>Overall rank: 3</b>
Oral health integration into the school health policy/programme	Yes: 20 (62.5%) No: 4 (12.5%) I don't know: 8 (25.0%)	Core: 21 (65.6%) Complementary: 9 (28.1%) I don't know: 2 (6.2%)	First: 10 (31.2%) Second: 6 (18.8%) Third: 3 (9.4%) Fourth: 4 (12.5%) Fifth: 2 (6.2%) Sixth: 2 (6.2%) Seventh: 3 (9.4%) Eighth: 2 (6.2%) Ninth: 0 (0%)	Mean (SD): 3.31 (2.35) Median: 2.50 <b>Overall rank: 4</b>

National policy or legislation to contain all forms of tobacco consumption	Yes: 20 (62.5%) No: 3 (9.4%) I don't know: 9 (28.1%)	Core: 20 (62.5%) Complementary: 11 (34.4%) I don't know: 1 (3.1%)	First: 7 (21.9%) Second: 1 (3.1%) Third: 6 (18.8%) Fourth: 3 (9.4%) Fifth: 6 (18.8%) Sixth: 7 (21.9%) Seventh: 0 (0%) Eighth: 2 (6.2%) Ninth: 0 (0%)	Mean (SD): 3.97 (2.12) Median: 4.00 Overall rank: 5
Implementation of tax on sugar- sweetened beverages (SSBs)	Yes: 19 (59.4%) No: 3 (9.4%) I don't know: 10 (31.2%)	Core: 20 (62.5%)) Complementary: 10 (31.2%) I don't know: 2 (6.2%)	First: 6 (18.8%) Second: 4 (12.5%) Third: 5 (15.6%) Fourth: 3 (9.4%) Fifth: 2 (6.2%) Sixth: 2 (6.2%) Seventh: 6 (18.8%) Eighth: 3 (9.4%) Ninth: 1 (3.1%)	Mean (SD): 4.31 (2.60) Median: 4.00 <b>Overall rank: 6</b>
Water fluoridation	Yes: 16 (50.0%) No: 7 (21.9%) I don't know: 9 (28.1%)	Core: 12 (37.5%) Complementary: 18 (56.2%) I don't know: 2 (6.2%)	First: 7 (21.9%) Second: 3 (9.4%) Third: 2 (6.2%) Fourth: 3 (9.4%) Fifth: 4 (12.5%) Sixth: 3 (9.4%) Seventh: 5 (15.6%) Eighth: 4 (12.5%) Ninth: 1 (3.1%)	Mean (SD): 4.53 (2.65 Median: 5.00 <b>Overall rank: 7</b>
Dental amalgam phase down policy	Yes: 17 (53.1%) No: 4 (12.5%) I don't know: 11 (34.4%)	Core: 14 (43.8%) Complementary: 16 (50.0%) I don't know: 2 (6.2%)	First: 4 (12.5%) Second: 3 (9.4%) Third: 3 (9.4%) Fourth: 3 (9.4%) Fifth: 2 (6.2%) Sixth: 6 (18.8%) Seventh: 6 (18.8%) Eighth: 4 (12.5%) Ninth: 1 (3.1%)	Mean (SD): 5.00 (2.46) Median: 6.00 <b>Overall rank: 8</b>

Noma recognized as a national public	Yes: 6 (18.8%)	Core: 3 (9.4%)	First: 2 (6.2%)	Mean (SD): 7.50 (2.65)
health problem	No: 17 (53.1%)	Complementary: 26 (81.2%)	Second: 1 (3.1%)	Median: 9.00
	I don't know: 9 (28.1%)	I don't know: 3 (9.4%)	Third: 1 (3.1%)	Overall rank: 9
			Fourth: 2 (6.2%)	
			Fifth: 1 (3.1%)	
			Sixth: 1 (3.1%)	
			Seventh: 0 (0%)	
			Eighth: 2 (6.2%)	
			Ninth: 22 (68.8%)	

 Table 15. Second round of Delphi results. Results for "evidence-informed policy" indicators.

Indicator name	Ability to collect by 2023	core/complementary	Rank within group	Mean/median rank within group
Oral health indicators in routine health information systems	Yes: 19 (59.4%) No: 4 (12.5%) I don't know: 9 (28.1%)	Core: 19 (59.4%) Complementary: 11 (34.4%) I don't know: 2 (6.2%)	First: 21 (65.6%) Second: 8 (25.0%) Third: 2 (6.2%) Fourth: 1 (3.1%) Fifth: 0 (0%)	Mean (SD): 1.47 (0.761) Median: 1.00 <b>Overall rank: 1</b>
Collection of oral health data using WHO NCD survey tools or national oral health survey	Yes: 13 (40.6%) No: 6 (18.8%) I don't know: 13 (40.6%)	Core: 17 (53.1%) Complementary: 13 (40.6%) I don't know: 2 (6.2%)	First: 11 (34.4%) Second: 8 (25.0%) Third: 6 (18.8%) Fourth: 7 (21.9%) Fifth: 0 (0%)	Mean (SD): 2.28 (1.17) Median: 2.00 <b>Overall rank: 2</b>
National Monitoring Framework to track oral health policy	Yes: Yes: 16 (50.0%) No: 6 (18.8%) I don't know: 10 (31.2%)	Core: 17 (53.1%) Complementary: 14 (43.8%) I don't know: 1 (3.1%)	First: 9 (28.1%) Second: 9 (28.1%) Third: 10 (31.2%) Fourth: 1 (3.1%) Fifth: 3 (9.4%)	Mean (SD): 2.38 (1.21) Median: 2.00 <b>Overall rank: 3</b>
Percentage of government funds for oral health research	Yes: 16 (50.0%) No: 5 (15.6%) I don't know: 11 (34.4%)	Core: 12 (37.5%) Complementary: 17 (53.1%) I don't know: 3 (9.4%)	First: 8 (25.0%) Second: 4 (12.5%) Third: 3 (9.4%) Fourth: 9 (28.1%) Fifth: 8 (25.0%)	Mean (SD): 3.16 (1.57) Median: 4.00 Overall rank: 4
Setting national oral health research agendas oriented towards public health programmes and population-based interventions	Yes: 15 (46.9%) No: 5 (15.6%) I don't know: 12 (37.5%)	Core: 11 (34.4%) Complementary: 17 (53.1%) I don't know: 4 (12.5%)	First: 6 (18.8%) Second: 4 (12.5%) Third: 3 (9.4%) Fourth: 5 (15.6%) Fifth: 14 (43.8%)	Mean (SD): 3.53 (1.61) Median: 4.00 Overall rank: 5

### 6. Discussion.

A monitoring framework is required to track the progress of integrating oral health care services into UHC and developing the GOHAP. Therefore, it is essential to think through a list of oral health and oral health care indicators to outline the monitoring framework. These indicators ought to be 'reliable' enough to be used for all times, 'broad' to cover oral health care fundamental domains, and 'feasible' among various low-, middle- and high-income countries. The current work was carried out to identify a set of oral health and oral health care indicators by taking several steps, including a scoping review and a two-round Delphi process.

### 6.1. Similar studies.

The current study is comparable to studies conducted in the past. For instance, a report was published on refining a set of indicators to monitor the palliative care development in countries (93). The report results indicated that a consensus was reached on a set of proposed indicators via a series of meetings and a two-round Delphi process with a panel of global experts. The indicators were chosen based on their relevance and feasibility by 27 experts who participated in both rounds of Delphi (93).

Another study was done in India to develop a specific UHC monitoring framework responding to health demands in the state of Kerala, India. A consensus was achieved on a set of 23 main indicators after 25 experts participated in a two-round modified Delphi process (94).

In the study reported in this thesis 31 international experts participated in the Delphi process, which comparable to the previous similar studies. The panel of experts for our study included representatives from all WHO regions, representatives from governments, and a group of experts from academia. These leading experts provided different perspectives on choosing the oral health care indicators.

# 6.2. Other frameworks.

In our study the respondents ranked 45 and then 40 indicators respectively across five categories in the first and second rounds of the Delphi process. Some of these indicators were previously used in the *results chain framework* of UHC as input, output, outcome, and impact domains of the health systems (79). Additionally, some of these indicators have been applied earlier in different countries to identify the existing inequalities in oral health care systems,

which could be related to the rankings or core/complementary selection of the indicators in the second round of the Delphi process.

Most respondents evaluated the "oral health status" category indicators as core indicators. Some of these indicators were previously used in different countries to monitor oral health care systems. For instance, "DMFT", "prevalence of untreated caries and periodontal diseases", and "self-reported oral health status" were used to follow the association between socioeconomic patterns of the population and dental care utilization equity in countries like the Netherlands, Colombia, Thailand, and also globally (95-98). The Delphi respondents in our study ranked "DMFT" first out of seven indicators in the "oral health status" category. This compares with "dmft" which was used as an indicator to measure the country's economic performance in Serbia (99). Furthermore, "Oral health status" indicators are comparable to "general health status" indicators that were considered in the impact domain of the health systems in the *results chain framework* (100).

Within the indicators of "UHC for oral health" category, the "prevalence of unmet oral health needs" was previously used to determine the correlation between socioeconomic inequalities and unmet oral health needs in China, Ghana, and India (101). Besides, "visit an oral health care professional" was formerly used to measure the impact of insurance, income, and geographic inequalities in accessing oral health services (102-105). Financing and workforce indicators such as "out-of-pocket payments", "financial barriers to oral healthcare", and the number of "oral health personnel" were previously used as indicators to measure the effects of existing inequalities in dental care utilization in Nigeria, Australia, and Thailand (95, 106, 107).

Moreover, financing indicators, including "government per capita expenditure on oral health" and "per capita expenditure on oral health", are comparable with the health financing indicators in the input category of the *results chain framework* (79, 100). "Financial risk protection" indicators were also categorized as impact indicators which are similar to the "out-of-pocket payment for oral health" indicator in this study (100). In addition, Health workforce indicators were classified as system input indicators in the *results chain framework* and are similar to the workforce indicators in the current study (79, 100). Furthermore, "service access and availability" was considered a category in the system output domain of the *results chain framework*. The indicators of this category are similar to the indicators of "service and population coverage" in the current study (100).

Among the "governance" indicators in the current study, "water fluoridation" was the only indicator previously used in Nova Scotia, Canada, to determine the association between socioeconomic status and the severity of dental caries in the population (108). "Governance and legislation" indicator was considered as a category with a set of input indicators in the *results chain framework*, which is comparable with the "governance" category in this study (79).

In the "risk factors for oral health status" category, "per capita consumption of sugar" and "using fluoridated toothpaste" were indicators previously used to monitor the implementation of community-based interventions in Burkina Faso (109). "Risk factor" indicators were categorized as outcome indicators in the *results chain framework* and are comparable to the indicators in the "risk factors for oral health status" category (100).

In summary, the indicators identified through the process reported in this thesis are broadly similar to those found in other frameworks monitoring health care systems in relation to other fields or looking at progress towards UHC in general health care.

# **6.3.** Observations and suggestions.

The Delphi survey responses should be carefully reviewed as it is essential to address the prevalence of "non-responses", "no data", and/or "no action" responses for some indicators. Indicators with a high proportion of these responses have the potential to improve significantly, as it is easier to improve an indicator of the desired outcome from 5% to 10% (a 100% increase) but it can be difficult to move it from 90% to 95% (a 5.6% increase).

It is also important to give special consideration to the data collection process. It might be difficult for some countries to gather data on some of the current 40 indicators. In spite of this, collecting such data could be a target that countries aim to achieve. For example, surveys can be sent to chief dental officers (or equivalent) in countries to collect multiple indicators by asking them to give relatively simple yes/no answers or other categorical responses.

It may be possible to facilitate the data collection of multiple indicators across different categories in the monitoring framework by recognizing the commonalities and differences in the methods of collecting the data. For example, complex population data can be gathered through existing databanks and data collection systems.

For example, data on indicators like "self-rated oral health", "daily use of fluoridated toothpaste", "daily consumption of risk factors (sugar, alcohol, tobacco, betel quid)", "unmet

needs", "consulting a dental professional", and "out-of-pocket payment for care estimates" could be gathered using self-completed surveys. Self-completed surveys are designed to be completed by the individuals in population sample surveys. Moreover, self-reported surveys are the most common methods to collect data on the populations' health status and health care service utilization (110).

Various methods could be used to carry out self-completed surveys, including computer-based, mobile phones, and voice phones. Besides, "self-completed" or household surveys are routinely collected by governments across many countries, and oral health-related indicators can be incorporated into these ongoing surveys. Also, self-completed surveys can be conducted in conjunction with or independently of clinical examination surveys. In addition, the data collection system for self-completed indicators can be set up in such a way to be able to collect data at regular intervals (every 2-3 years), as it is likely that the status of these indicators is more sensitive to change than clinical disease indicators.

Both "self-completed" and "clinical disease" indicators are determined by socio-economic, education, and health care system-related factors. Therefore, they are helpful to further explore the changes in the existing inequalities with the implementation of different strategies. However, collecting data on self-completed indicators is less expensive than on clinical disease indicators. Given these observations, it could be a good strategy to monitor change, for example, to develop a self-completion survey, along with technical means for distributing it across multiple countries in order to collect data on the required key indicators.

# 6.4. Limitations and future steps.

This study has some limitations in the methodology, as it is not purely a research process. It is because Delphi is considered a mixture of research as well as a decision-making process. Also, our work was only a part of a greater process which is ongoing. We have completed steps 1 to 7 of all the steps mentioned earlier in the project outline (section 2.9). The informal consultations are ongoing with WHO regions on the oral health care monitoring framework and indicators (step 8).

In the up-coming months, the 40 indicators will be sent formally to WHO members states, and formal consultations will be arranged regarding the GOHS, GOHAP and oral health care monitoring framework and the indicators (step 9). WHO member states will formally vote on

GOHS and GOHAP in spring 2023 (step 10). The process of collecting baseline data will start in October 2022, along with these steps.

### 7. Conclusion.

The integration of oral health care services into UHC needs to be accelerated in order to implement the GOHAP properly. It is also essential to develop a framework that monitors the integration process in countries' health systems. It is necessary to identify oral health and oral health care indicators to establish such a monitoring framework. The work reported in this thesis was done as a part of a bigger project to identify relevant oral health and oral health care indicators that could be used in various countries. A scoping review was conducted initially to identify the relevant oral health care indicators existing in the literature that had the potential to be used in the monitoring framework. Following that, a two-round Delphi survey was carried out so as to create a list of leading indicators. Some of these indicators were comparable with the indicators used in the monitoring framework for general health. Besides, many of these indicators were previously used to measure oral health care socio-economically related inequalities in various countries.

Furthermore, different surveys and tools can collect data on a number of the identified indicators. The list of the identified indicators will be finalized after future formal consultations with WHO member states. The data will then be collected using these indicators across a range of low-, middle- and high-income countries.

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# 9. Copyright.

'Figure 1. *The Western Pacific Health System Performance Framework*' has been adapted from [Regional Office for the Western P. Monitoring universal health coverage in the Western Pacific: framework, indicators, and dashboard: Mandaluyong City: Asian Development Bank; 2016].

10. Appendices.

Appendix 1. The ethical approval letter



Faculty of Faculté de
Medicine and médecine et des
Health Sciences sciences de la santé

3655 Promenade Sir William Osler #633

3655, Promenade Sir William Osler #633

T: (514) 398-3124

Montreal, QC H3G 1Y6

Montréal, QC H3G 1Y6

January 21, 2022

Dr. Paul Allison

Faculty of Dental Medicine and OralHealth Sciences

2001 McGill College Avenue – Suite 500Montreal, Quebec H3A 1G1

eRAP/Info-Ed File Number: 22-01-039 IRB Internal Study Number: A01-E02-22A

**Study Title:** Identification of indicators for the monitoring framework of the global oralhealth action plan

McGill Principal Investigator: Paul Allison

Sponsor: WHO

Dear Dr. Allison,

Thank you for submitting the above-referenced study for an ethics review.

As this study involves no more than minimal risk, and in accordance with Articles 2.9 and 6.12 of the 2nd Edition of the Canadian Tri-Council Policy Statement of Ethical Conduct for Research Involving Humans (TCPS 2 2018) and U.S. Title 45 CFR 46, Section 110 (b), paragraph (1), we are pleased to inform you that an expedited/delegated review was conducted and ethics approval for the study is provided on 21-Jan- 2022, valid until **20-Jan-2023**. The study proposal will be presented for corroborative approval at the next meeting of the Committee.

The following documents were reviewed and approved:

Study protocol and instruments (IRB dated January 10, 2022)

Invitation letter and consent form (IRB dated January 10, 2022)

The Faculty of Medicine and Health Sciences Institutional Review Board (IRB) is a registered University Research Ethics Board working under the published guidelines of the Tri-Council Policy Statement 2, in compliance with the Cadre de référence en recherche avec des participants humains (MSSS, 2020), and the Food and Drugs Act (17 June 2001); and acts in accordance with the U.S. Code of Federal Regulations that govern research on human subjects (**FWA 00004545**). The IRB working procedures are consistent with internationally accepted principles of good clinical practice.

The Principal Investigator is required to immediately notify the Institutional Review Board Office, via amendment or progress report, of:

Any significant changes to the research project and the reason for that change, including an indication of ethical implications (if any);

Serious Adverse Effects experienced by participants and the action taken to address thoseeffects;

Any other unforeseen events or unanticipated developments that merit notification;

The inability of the Principal Investigator to continue in her/his role, or any other changein research personnel involved in the project;

A delay of more than 12 months in the commencement of the research project, and;

Termination or closure of the research project.

Roberty M. Palmour

The Principal Investigator is required to submit an annual progress report (continuing reviewapplication) on the anniversary of the date of the initial approval (or see the date of expiration).

The Faculty of Medicine and Health Sciences IRB may conduct an audit of the research project at anytime.

If the research project involves multiple study sites, the Principal Investigator is required to report all IRB approvals and approved study documents to the appropriate Research Ethics Office (REO) or delegated authority for the participating study sites. Appropriate authorization from each study site must be obtained before the study recruitment and/or testing can begin at that site. Research funds linked to this research project may be withheld and/or the study data may be revoked if the Principal Investigator fails to comply with this requirement. A copy of the study site authorization should be submitted the IRB Office.

It is the Principal Investigator's responsibility to ensure that all researchers associated with this projectare aware of the conditions of approval and which documents have been approved.

The McGill IRB wishes you and your colleagues every success in your research. Sincerely,

Roberta Palmour, PhDChair

Institutional Review Board

cc: Svetlana Komarova, PhD, Associate Dean, Research and Graduate Dental EducationSylvain Baillet, PhD, Associate Dean, Medicine Research

A01-E02-22A (22-01-039)

# Appendix 2. First round Delphi questionnaire.

#### Selection of indicators to be included in the monitoring framework of the global oral health action plan

Thank you for taking part in the first round of the Delphi process to contribute to the selection of indicators for the WHO Monitoring Framework of the Global Oral Health Action Plan. The questionnaire will firstly ask you a few questions related to your socio-demographics, work role, and where in the world you work, and secondly ask your opinion on the relevance, feasibility of data collection, and sensitivity to change of a list of potential indicators.

The objective of this survey is to prioritize, using Delphi methodology, oral health indicators for inclusion into the monitoring framework of the global oral health action plan. Your frank assessment is critical for this important undertaking.

It is important to note that you must complete sections of the questionnaire to proceed to the next sections. The questionnaire will take you approximately 60 minutes. Before you start filling the questionnaire, please take time to go through the accompanying documents, including the Long List of Indicators spreadsheet and the briefing document on the key concepts and criteria considered for the monitoring framework. Please submit your responses by Monday 14 March.

Background: The recent World Health Assembly resolution WHA74.5 (2021) on oral health requested the WHO Director-General to develop a draft global strategy on tackling oral diseases by 2022 and to translate this global strategy by 2023 into an action plan for public oral health, including a framework for tracking progress with clear measurable targets to be achieved by 2030. The monitoring framework of the Global Oral Health Action Plan (GOHAP) will require a set of robust indicators covering key areas such as oral health status, risk factors for oral diseases, national response of health systems, and integration of oral health into universal health coverage (UHC) and general healthcare.

To achieve this work, the WHO Oral Health Programme works with the technical support of McGill University in Canada and the International Health Policy Programme Foundation (IHPP) of the Ministry of Public Health in Thailand. In addition to this collaboration, a global informal experts group (GIEG) composed by representing chief dental officers, WHO collaborating centres, and technical experts from all WHO regions has been established to support the consensus-building process to select the proposed menu of indicators to be included in the monitoring framework.

In this context, it is important to identify a collection of indicators of oral health care delivery and its integration into UHC and general health care. Ideally, these indicators, or at least a subset thereof, will be relevant to all countries and WHO regions, whatever their economic status and their dental care delivery system's level of integration into UHC and general health care. These indicators will be key elements of a global plan for oral health care evolution over the coming years.

It is important to note that you must complete sections of the questionnaire to proceed to the next sections. The questionnaire will take you approximately 60 minutes.

Project: Identification of indicators to inform the monitoring framework of the global oral health action plan

Principal investigator: Paul Allison, Faculty of Dental Medicine & Oral Health Sciences, McGill University

Co-investigators: Benoit Varenne, World Health Organization, and Viroj Tangcharoensathien, International Health Policy Program, Ministry of Public Health, Thailand

**Project aim:** To identify key indicators to inform the monitoring framework of the global oral health action plan, including indicators of oral health care delivery and its integration within UHC and general health care, that are relevant to all countries and regions, whatever their economic status.

Description of the methodology: We will use a Delphi process for this element of the project. A Delphi process is a means to gather input on a topic from a sample of relevant experts using two or more rounds of questionnaires to converge towards agreed solutions, or in this case indicators. Prior to the Delphi process, work has already been performed to identify potential indicators. Under WHO coordination, IHPP, Ministry of Public Health, Thailand has reviewed multiple datasets and McGill University has performed a scoping review of the literature. Additional indicators were also identified through meetings held with the Global Informal Experts Group (GIEG). Indicators identified through these processes have been combined, refined, and prioritized to create a "draft long list" of potential indicators that have been used to create a questionnaire to initiate the Delphi process.

If I participate in this survey, what will be involved? Participating in this survey means that you are willing to complete an online survey (approx. 30-45 mins) concerning a "long list" of potential indicators, and then again concerning a potential "short list" of indicators

Potential harms, discomforts, or inconveniences: There is no risk associated with participating in this survey. It involves no treatment or procedures that can cause harm, injuries, or discomfort.

**Potential benefits:** The results from the survey will contribute to the development of the monitoring framework of the GOHAP, in alignment with the WHO Global Strategy on Oral Health.

**Confidentiality:** We assure you that all information gathered during the course of this survey will be kept confidential and anonymous. The invitation to participate in this survey was sent to you by McGill University. When you register and consent to participate and then complete survey questionnaires, all the data are stored on a firewall- and password-protected server at McGill University. All the data will be identified through a code number.

The results of this project will be published in WHO publications and scientific journals in an anonymous form. De-identified data (after removing any identifiable information) may be shared with other researchers upon request.

Participation and withdrawal: Participation in this online survey is entirely voluntary. You are free to withdraw from it at any time you want to. Should you decide to withdraw from this survey, after completing it, you may send a request to <a href="mailto:paul.allison@mcgill.ca">paul.allison@mcgill.ca</a>, and we will delete your data immediately.

Further information: If you would like to have more information or have any questions related to this survey, please do not hesitate to contact the project leader, Dr. Allison. For any questions regarding your rights as a survey participant, please contact the Ms. Ilde Lepore (<a href="mailto:ilde.lepore@mcgill.ca">ilde.lepore@mcgill.ca</a>) who is Ethics Officer at the Faculty of Medicine and Health Sciences, McGill University.

Dr. Paul Allison

Faculty of Dental Medicine & Oral Health Sciences

McGill University 2001 McGill College Avenue, Suite 500 Montreal, QC, H3A 1G1 Tel: 514 398 6324

Email: paul.allison@mcgill.ca

Cambodia

Cameroon

Canada

Fiji

Finland

France

**Consent:** I have carefully read the above and understand this agreement. I consent to participate in this survey, which involves the collection of data through online questionnaires. I do not waive any of my rights by signing this consent.

I have read the consent form and agree to participate in this survey. Section 1: Background Information 1. What is your gender/ how do you currently identify? \*Choose one of the following answers Prefer not to answer Man Woman Prefer to self-describe 2. What is your age? \*Choose one of the following answers Less than 40 years 55-70 years Prefer not to answer 40-54 years More than 70 years 3. Which country do you work in? Choose one of the following answers Afghanistan Lesotho Central African Gabon Albania Republic Gambia Liberia Algeria Chad Georgia Libya Andorra Chile Germany Lithuania Angola China Ghana Luxembourg Colombia Antigua and Greece Madagascar Barbuda Comoros Grenada Malawi Argentina Congo Guatemala Malaysia Armenia Cook Islands Guinea Maldives Australia Costa Rica Guinea-Bissau Mali Côte d'Ivoire Austria Guyana Malta Croatia Azerbaijan Haiti Marshall Islands **Bahamas** Cuba Honduras Mauritania Bahrain Cyprus Hungary Mauritius Czechia Bangladesh Iceland Mexico Barbados Democratic People's India Micronesia **Belarus** Republic of Korea Indonesia (Federated States of) **Democratic Republic** Belgium Iran (Islamic Republic Monaco of the Congo of) Mongolia Belize Denmark Iraq Montenegro Benin Djibouti Ireland **Bhutan** Morocco Dominica Bolivia (Plurinational Israel Mozambique Dominican Republic State of) Italy Myanmar Bosnia and Ecuador Jamaica Namibia Egypt Herzegovina Japan Nauru Botswana El Salvador Jordan Nepal Brazil **Equatorial Guinea** Netherlands Kazakhstan Eritrea Brunei Darussalam New Zealand Kenya Estonia Bulgaria Kiribati Nicaragua Burkina Faso Eswatini Kuwait Niger Burundi Ethiopia Kyrgyzstan Nigeria Faroe Islands Cabo Verde Lao People's Niue

Democratic Republic

Latvia

Lebanon

North Macedonia

Norway

Oman

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	Peru		Principe		Syrian Arab Republic				Tanzania
	Philippines		Saudi Arabia		Tajikistan				United States of
	Poland		Senegal		Thailand				America
	Portugal		Serbia		Timor-Leste				Uruguay
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	Qatar		Sierra Leone		Tokelau				Vanuatu
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	Romania		Slovenia		Tunisia				Viet Nam
	Russian Federation		Solomon Islands		Turkey				Yemen
	Rwanda		Somalia		Turkmenistan				Zambia
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	European Region		☐ Western Pacific	•					
5. Which	of the following best describes the w	ork role	for which you were invited to p	participate in	this project? *Choose o	ne of	the follow	ving a	inswers
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	WHO Collaborating Centre represe		e Willistry Or Health		Prefer not to answer				
	Academic or researcher	iitative							
Ш	Academic of researcher			Ш	Other-please state				
Section 2	Relevance, Feasibility, and Sensitiv	ity of in	dicators						
regular co	vey, you will be asked to rate each pollection in your country; and 3) sensions the degree to which the indicator of	tivity to	detect change over time in you	ir country.	_				
Oral Heal	th Action Plan.								
Feasibility	$\gamma^*$ : the degree to which an indicator	would b	pe easily and repeatedly obtaine	d or collecte	ed (at regular intervals to	2030	)) by sugge	ested	data sources.
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Each pote	ential indicator will be presented with	n a brief	name, definition, and data sour	ce specificat	cions.				
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6. Please	choose all that apply:								
	proceed with the rest of the survey	,							
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Indicato	or name: "Mean DMFT"								
Definiti	on: DMFT is the sum of the number of	of Decay	ed, Missing due to caries, and F	illed Teeth ir	n the permanent teeth.	The n	nean numb	er of	DMFT is the sum
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7. Relevance: Rate "Mean DMFT" in terms of ....... (\*Please choose the appropriate response for each item)

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Sensitivity to change in my country	0	0	0	0	0	0
Oral health status indicators / Caries						
Indicator name: "Prevalence of untre	ated caries of deciduo	ous teeth in children "				
<b>Definition:</b> Estimated prevalence of u			. Rate of children who	have caries in one o	r more deciduous te	eth Untreated
caries is defined as a lesion in a pit or			mistakable cavity, und	ermined enamel, or	a detectably softene	d floor or wall
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Relevance to my WHO region Relevance globally  1. Feasibility for regular collection: Raisech item)  Feasibility in my country 2. Sensitivity to detect changes over time propriate response for each item)  Sensitivity to change in my country probable for the propriate response for each item)  Sensitivity to change in my country probable for the propriate response for each item)  March 1 and 1 a	Very feasible  Ome (by 2030): Rate "P  Very sensitive  O  atted caries of permanular period (arries) of period a smooth tooth surpling (root caries).  Ing a national oral head sease 2019 database, I see 2019 estimation proper//ghdx.healthdata.th Status Report relies	Somewhat feasible O reated caries of deciduor O revalence of untreated of Somewhat sensitive O remanent teeth in people rface, has an unmistakat olth survey) Institute for Health Metrocess is based on multiporg/gbd-results-tool on the latest available of	Neither feasible nor unfeasible Ocaries of deciduous tee Neither sensitive nor insensitive Ocaries of persons with ole cavity, undermined ics and Evaluation ole relevant data source GBD data from 2019.	Somewhat unfeasible Oth in children" in term Somewhat insensitive O one more carious perenamel, or a detectate.	Completely unfeasible Oms of(*Please che insensitive Ompletely insensitive	No answer/ I do not know Onoose the No answer/ I do not know Onoose the No answer/ I do not know O

Very relevant Somewhat relevant Neither relevant Somewhat Completely No answer/ I

	very relevant	Joinewhat relevant	Neither relevant	Joinewhat	Completely	NO allowely I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0

Relevance globally	0	0	0	0	0	0
4. Feasibility for regular collection: R	Rate "Prevalence of un	treated caries of permane	ent teeth" in terms of.	(*Please choo	ose the appropriate r	esponse for each
em)						
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
E. and the control of		0	nor unfeasible	unfeasible O	unfeasible	do not know
easibility in my country	O		O		(*Dlassa shassa tha	O
. Sensitivity to detect changes over	time (by 2030): Rate	Prevalence of untreated	caries of permanent to	eetn in terms or	("Please choose the	appropriate
sponse for each item)						
	Very sensitive	Somewhat sensitive	Neither sensitive	Somewhat	Completely	No answer/ I
	Tely sensitive		nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
ral health status indicators / Missing	g teeth/edentulism					
Indicator name: "Prevalence of ede						
<b>Definition:</b> Estimated prevalence of	edentulism in people	: Rate of persons with cor	nplete loss of natural	teeth.		
Preferred data source:						
At country level:						
- Population-based surveys (Conduc	ting a national oral he	ealth survey)				
- Routine surveillance systems						
At global level:						
- Estimations by Global Burden of D					Ovel Health Comme	Lial ta Clabal
<b>Related links:</b> Global Burden of Dise Burden of Disease 2019 database: h	•	-	ne relevant data sourc	es, such as National	Oral Health Surveys.	Link to Global
The upcoming WHO Global Oral Hea			GBD data from 2019			
6. <u>Relevance:</u> Rate "Prevalence of ed				e for each item)		
o. <u>Helevariee:</u> Nate Trevalence of ee	zentansin in terms of	Trease choose the	z appropriate respons	e for each feeling		
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ö	0	Ö	0	0	0
Relevance globally	Ö	Ŏ	Ō	0	0	Ŏ
7. Feasibility for regular collection: R	Rate "Prevalence of ed	entulism" in terms of	(*Please choose th	e appropriate respo	nse for each item)	
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0		O
8. Sensitivity to detect changes over	time (by 2030): Rate	'Prevalence of edentulism	n" in terms of(*Ple	ease choose the app	ropriate response for	each item)
	Manuacattina	Somewhat sensitive	Neither sensitive	Somewhat	Camandatali.	No seement l
	Very sensitive	Somewhat sensitive	nor insensitive	insensitive	Completely insensitive	No answer/ I do not know
Sensitivity to change in my country	0	0	O	O	O	O
Oral health status indicators / Missing						
rial fleditii status iliuicators / iviissilig	ş teetii					
Indicator name: "Missing teeth"						
Indicator name: "Missing teeth"  Definition: Missing teeth status refe	ers to the number of t	he missing teeth. Normall	'v measured in permar	nent teeth in adult p	opulations and is rela	ited to a fully
<b>Definition:</b> Missing teeth status refe		he missing teeth. Normall	y measured in permar	nent teeth in adult p	opulations and is rela	ited to a fully
		he missing teeth. Normall	ly measured in permar	nent teeth in adult p	opulations and is rela	ited to a fully
<b>Definition:</b> Missing teeth status refedentata status of 28 teeth (excludin		he missing teeth. Normall	ly measured in permar	nent teeth in adult p	opulations and is rela	ited to a fully
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduction	ng third molars).  Setting the WHO STEPS S	Survey using the optional (	Oral Health Module)			<u> </u>
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0	g third molars).  Sting the WHO STEPS SO	Survey using the optional (	Oral Health Module)	-diseases/surveilland		<u> </u>
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0	g third molars).  Sting the WHO STEPS SO	Survey using the optional (	Oral Health Module)	-diseases/surveilland		<u> </u>
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0	ethird molars).  Sting the WHO STEPS SO  Oral Health Module: h  n terms of(*Plea	Survey using the optional outps://www.who.int/teamase choose the appropriat	Oral Health Module) ns/noncommunicable- te response for each it	-diseases/surveillanc em)	re/systems-tools/step	os/instrument
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0	g third molars).  Sting the WHO STEPS SO	Survey using the optional (	Oral Health Module)  ms/noncommunicable te response for each it  Neither relevant	-diseases/surveillancem)  Somewhat	ce/systems-tools/step	os/instrument  No answer/ I
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0 9. Relevance: Rate "Missing teeth" in	eting the WHO STEPS S Oral Health Module: h n terms of(*Plea	Survey using the optional of t	Oral Health Module) ns/noncommunicable- te response for each it  Neither relevant nor irrelevant	-diseases/surveilland em) Somewhat irrelevant	ce/systems-tools/step  Completely irrelevant	No answer/ I do not know
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0 9. Relevance: Rate "Missing teeth" in Relevance to my country	eting the WHO STEPS SOCIETY OF THE STEPS SOCIETY OF T	Survey using the optional of t	Oral Health Module) ns/noncommunicable te response for each it  Neither relevant nor irrelevant  O	-diseases/surveilland em)  Somewhat irrelevant	Completely irrelevant	No answer/ I do not know
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0 9. Relevance: Rate "Missing teeth" in Relevance to my country Relevance to my WHO region	eting the WHO STEPS SOCIETY OF THE STEPS SOCIETY OF T	Survey using the optional of t	Oral Health Module) ns/noncommunicable- te response for each it  Neither relevant nor irrelevant	Somewhat irrelevant	Completely irrelevant	No answer/ I do not know
Definition: Missing teeth status refedentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduct Related links: WHO STEPS survey - 0. Relevance: Rate "Missing teeth" in Relevance to my country Relevance to my WHO region Relevance globally	eting the WHO STEPS SOCIETY OF THE STEPS SOCIETY OF T	Survey using the optional of https://www.who.int/team ase choose the appropriat  Somewhat relevant  O O O	Oral Health Module)  ms/noncommunicable- te response for each it  Neither relevant nor irrelevant  O O O	Somewhat irrelevant	Completely irrelevant O O	No answer/ I do not know
Definition: Missing teeth status refedentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduct Related links: WHO STEPS survey - 09. Relevance: Rate "Missing teeth" in Relevance to my country Relevance to my WHO region Relevance globally	eting the WHO STEPS SOCIETY OF THE STEPS SOCIETY OF T	Survey using the optional of https://www.who.int/team ase choose the appropriat  Somewhat relevant  O O O	Oral Health Module)  ms/noncommunicable- te response for each it  Neither relevant nor irrelevant  O O O	Somewhat irrelevant	Completely irrelevant O O	No answer/ I do not know
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0 9. Relevance: Rate "Missing teeth" in Relevance to my country Relevance to my WHO region Relevance globally	cting the WHO STEPS SOME THE STEPS S	Survey using the optional of https://www.who.int/team asse choose the appropriate Somewhat relevant OOOO OOO on terms of(*Please	Oral Health Module)  ms/noncommunicable- te response for each it  Neither relevant nor irrelevant  O  choose the appropria	Somewhat irrelevant O O te response for each	Completely irrelevant O O o item)	No answer/ I do not know
Definition: Missing teeth status refe dentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduc Related links: WHO STEPS survey - 0 9. Relevance: Rate "Missing teeth" in Relevance to my country Relevance to my WHO region Relevance globally	eting the WHO STEPS SOCIETY OF THE STEPS SOCIETY OF T	Survey using the optional of https://www.who.int/team ase choose the appropriat  Somewhat relevant  O O O	Oral Health Module)  ms/noncommunicable- te response for each it  Neither relevant nor irrelevant  O  choose the appropria	Somewhat irrelevant O O te response for each	Completely irrelevant O O item) Completely	No answer/ I do not know O O No answer/ I
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Definition: Missing teeth status refedentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduct Related links: WHO STEPS survey - 09. Relevance: Rate "Missing teeth" in Relevance to my country Relevance to my WHO region Relevance globally 0. Feasibility for regular collection: Residential for the property of t	ting the WHO STEPS SON THE STE	Survey using the optional of https://www.who.int/team asse choose the appropriate Somewhat relevant  O O O n terms of(*Please Somewhat feasible	Oral Health Module)  ms/noncommunicable- te response for each it  Neither relevant nor irrelevant  O choose the appropria  Neither feasible nor unfeasible  O	Somewhat irrelevant O te response for each Somewhat unfeasible O	Completely irrelevant O O item)  Completely unfeasible O	No answer/ I do not know O O No answer/ I
Definition: Missing teeth status refedentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduct Related links: WHO STEPS survey - 0.9. Relevance: Rate "Missing teeth" in Relevance to my country Relevance to my WHO region Relevance globally 10. Feasibility for regular collection: Relevance in my country Residentification of the results of the regular collection: Relevance globally 10. Feasibility in my country	ting the WHO STEPS SON THE STE	Survey using the optional of https://www.who.int/team asse choose the appropriate Somewhat relevant  O O O n terms of(*Please Somewhat feasible	Oral Health Module)  ms/noncommunicable- te response for each it  Neither relevant nor irrelevant  O choose the appropria  Neither feasible nor unfeasible  O	Somewhat irrelevant O te response for each Somewhat unfeasible O	Completely irrelevant O O item)  Completely unfeasible O	No answer/ I do not know O O No answer/ I do not know
Definition: Missing teeth status refedentata status of 28 teeth (excludin Preferred data source: At country level: - Population-based surveys (Conduct Related links: WHO STEPS survey - 0.9. Relevance: Rate "Missing teeth" in Relevance to my country Relevance to my WHO region Relevance globally 10. Feasibility for regular collection: Relevance in my country Residentification of the results of the regular collection: Relevance globally 10. Feasibility in my country	ting the WHO STEPS SOTAL Health Module: health Modu	Survey using the optional of https://www.who.int/teamase choose the appropriate Somewhat relevant  O O O n terms of(*Please Somewhat feasible O "Missing teeth" in terms of	Oral Health Module)  ms/noncommunicable- te response for each it  Neither relevant nor irrelevant  O choose the appropria  Neither feasible nor unfeasible O of(*Please choose	Somewhat irrelevant O te response for each Somewhat unfeasible O the appropriate response	Completely irrelevant O O item)  Completely unfeasible O O O O O O O O O O O O O O O O O O O	No answer/ I do not know O O O No answer/ I do not know O O O O O O O O O O O O O O O O O O O
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Indicator name: "Prevalence of severe periodontal disease"

**Definition:** Estimated prevalence of severe periodontal disease in people: Rate of persons affected by severe periodontal disease, a chronic inflammation of the soft and hard tissues that support and anchor the teeth.

#### Preferred data source:

At country level:

- Population-based surveys (Conducting a national oral health survey)
- Routine surveillance systems

At global level:

- Estimations by Global Burden of Disease 2019 database, Institute for Health Metrics and Evaluation

Related links: Global Burden of Disease 2019 estimates are based on multiple relevant data sources, such as National Oral Health Surveys. Link to Global Burden of Disease 2019 database: http://ghdx.healthdata.org/gbd-results-tool

The upcoming WHO Global Oral Health Status Report relies on the latest available GBD data from 2019.

22. Relevance: Rate "Prevalence of severe periodontal disease" in terms of .......(\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0

23. Feasibility for regular collection: Rate "Prevalence of severe periodontal disease" in terms of......(\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

24. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "Prevalence of severe periodontal disease" in terms of......(\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat sensitive	Neither sensitive	Somewhat	Completely	No answer/ I
			nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0

Oral health status indicators / Lip and oral cavity cancer

Indicator name: "Number of new cases of oral cancer (lip and oral cavity cancer) (all ages)"

**Definition:** Estimated number of new cases of lip and oral cavity cancer: Estimated number of new cases of lip and oral cavity cancer in females, males, and total, among all ages.

# Preferred data source:

At country level:

- Population-based cancer registries
- At global level:
- Estimations by Globocan 2020 database, International Agency for Research on Oral Cancer

**Related links:** GLOBOCAN estimates use the available data on cancer incidence from population-based cancer registries. GLOBOCAN 2020 database: Available from: <a href="https://gco.iarc.fr/today">https://gco.iarc.fr/today</a>

The upcoming WHO Global Oral Health Status Report relies on data from the International Agency for Research on Cancer (IARC).

25. <u>Relevance</u>: Rate "Number of new cases of oral cancer (lip and oral cavity cancer) (all ages)" in terms of ........ (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0

26. <u>Feasibility for regular collection</u>: Rate "Number of new cases of oral cancer (lip and oral cavity cancer) (all ages)" in terms of......(\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

27. <u>Sensitivity to detect changes over time (by 2030)</u>: Rate "Number of new cases of oral cancer (lip and oral cavity) (all ages)" in terms of...... (\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat sensitive	Neither sensitive	Somewhat	Completely	No answer/ I
			nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0

Oral health status indicators / Lip and oral cavity cancer

Indicator name: "Incidence rate of oral cancer (lip and oral cavity cancer) (age-standardized rate per 100,000 population)"

Definition: Estimated incidence rate of lip and oral cavity cancer (age-standardized per 100,000 population): Incidence rates of lip and oral cavity cancer in females, males, and total, among all ages as age-standardized per 100,000 population.

Preferred data source:
At country level:
- Population-based cancer registries
At global level:
- Estimations by Globocan 2020 database, International Agency for Research on Oral Cancer

**Related links:** GLOBOCAN estimates use the available data on cancer incidence from population-based cancer registries. GLOBOCAN 2020 database: Available from: https://gco.jarc.fr/today

The upcoming WHO Global Oral Health Status Report relies on data from the International Agency for Research on Cancer (IARC).

28. <u>Relevance</u>: Rate "Incidence rate of oral cancer (lip and oral cavity cancer) (age-standardized rate per 100,000 population)" in terms of ........ (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	O	0	Ō	0	0	0
Relevance globally	0	0	0	0	0	0

29. <u>Feasibility for regular collection</u>: Rate "Incidence rate of oral cancer (lip and oral cavity cancer) (age-standardized rate per 100,000 population)" in terms of..........(\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

30. <u>Sensitivity to detect changes over time (by 2030)</u>: Rate "Incidence rate of oral cancer (lip and oral cavity cancer) (age-standardized rate per 100,000 population)" in terms of......(\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat sensitive	Neither sensitive	Somewhat	Completely	No answer/ I
			nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0

Oral health status indicators / self-reported oral health status

Indicator name: "Self-reported oral health status"

**Definition:** Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).

#### Preferred data source:

At country level:

Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)

Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a>

31. Relevance: Rate "Self-reported oral health status" in terms of ........(\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	O	0	0	0	0	Ŏ

32. Feasibility for regular collection: Rate "Self-reported oral health status" in terms of.... (\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

33. Sensitivity to detect changes over time (by 2030): Rate "Self-reported oral health status" in terms of......(\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat sensitive	Neither sensitive	Somewhat	Completely	No answer/ I
			nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0

Oral health status: You have now finished responding to questions concerning indicators of "Oral Health Status".

- Mean DMFT
- Prevalence of untreated caries of deciduous teeth in children
- Prevalence of untreated caries of permanent teeth
- Missing teeth
- Prevalence of severe periodontal disease
- Number of new cases of oral cancer (lip and oral cavity cancer) (all ages)
- Incidence rate of oral cancer (lip and oral cavity cancer) (age-standardized rate per 100,000 population)
- Self-reported oral health status

- Prevalence of edentulism
- 34. Are there any indicators of "Oral Health Status" that were not included but that you believe should be? Please provide a name and brief rationale for inclusion below. Please write your answer here:
- 35. Do you have any other comments regarding the potential indicators listed above, that could assist to refine them further? For example, regarding the definitions, data sources, age groups, data disaggregation, etc. Please write your answer here:

Indicator name: "Prevalence of current tobacco use among persons aged 15 years and older (age-standardized rate)"

**Definition:** The percentage of the population aged 15 years and over who currently use any tobacco product (smoked and/or smokeless tobacco) on a daily or non-daily basis. Tobacco products include cigarettes, pipes, cigars, cigarillos, waterpipes (hookah, shisha), bidis, kretek, heated tobacco products, and all forms of smokeless (oral and nasal) tobacco. Tobacco products exclude e-cigarettes (which do not contain tobacco), "e-cigars", "e-hookahs", JUUL, and "e-pipes".

#### Preferred data source:

At country level:

- Population based surveys (Conducting the WHO Global Adult Tobacco Survey or WHO STEPS survey)

At global level:

WHO Global Health Observatory 2019 database

#### Related links:

WHO Global Adult Tobacco Survey: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/global-adult-tobacco-survey">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/global-adult-tobacco-survey</a>

WHO STEPS survey: https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument

WHO Global Health Observatory indicator: <a href="https://www.who.int/data/gho/data/indicators/indicator-details/GHO/gho-tobacco-control-monitor-current-tobaccouse-tobaccouse-tobaccosmoking-cigarrettesmoking-agestd-tobagestdcurr">https://www.who.int/data/gho/data/indicators/indicator-details/GHO/gho-tobacco-control-monitor-current-tobaccouse-tobaccosmoking-cigarrettesmoking-agestd-tobagestdcurr</a>

36. <u>Relevance</u>: Rate "Prevalence of current tobacco use among persons aged 15 years and older (age-standardized rate)" in terms of ........ (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ō	0	0	0	0	0
Relevance globally	O	O	0	0	0	Ō

37. <u>Feasibility for regular collection:</u> Rate "Prevalence of current tobacco use among persons aged 15 years and older (age-standardized rate)" in terms of......... (\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	$\circ$	$\circ$		0		$\cap$

38. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "Prevalence of current tobacco use among persons aged 15 years and older (age-standardized rate)" in terms of....... (\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0

Risk factor of oral health/ Smokeless tobacco

Indicator name: "Prevalence of smokeless tobacco use among persons aged 15 years and older"

Definition: Estimated prevalence of smokeless tobacco use among persons aged 15 years and older (%).

#### Preferred data source:

At country level:

- Population-based surveys (Conducting the WHO Global Adult Tobacco Survey or WHO STEPS survey)

At global level

- Estimations included in WHO global report on trends in prevalence of tobacco use 2000-2025 (Fourth edition)

#### **Related links:**

WHO Global Adult Tobacco Survey: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/global-adult-tobacco-survey">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/global-adult-tobacco-survey</a> WHO STEPS survey: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a>

WHO global report on trends in prevalence of tobacco use 2000-2025 (fourth edition):

https://www.who.int/publications/i/item/9789240039322

39. <u>Relevance</u>: Rate "Prevalence of smokeless tobacco use among persons aged 15 years and older" in terms of ........ (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant nor irrelevant	Somewhat irrelevant	Completely irrelevant	No answer/ I do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ō	0	Ō	0	0	0
Relevance globally	0	0	0	0	0	0

40. <u>Feasibility for regular collection:</u> Rate "Prevalence of smokeless tobacco use among persons aged 15 years and older" in terms of....... (\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible nor unfeasible	Somewhat unfeasible	Completely unfeasible	No answer/ I do not know
Feasibility in my country	0	0	0	0	0	0

41. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "Prevalence of smokeless tobacco use among persons aged 15 years and older" in terms of...... (\*Please choose the appropriate response for each item)

Very	ry sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know

Sensitivity to change in my country	0	0	0	0	0	0
Risk factor of oral health / Betel quid/ar	eca nut			<u>.                                      </u>		·
Indicator name: "Prevalence of currer Definition: Prevalence of current bete	el quid use among pe			tage of the populati	on aged 15 years and	l over who
currently chew BQ at least 3 days a we	eek.					
Preferred data source:						
At country level:						
Population-based surveys						
Related links: A future source of infor						
42. <u>Relevance:</u> Rate "Prevalence of curr or each item)	rent betel quid use a	mong persons aged 15 ye	ears and older" in terr	ns of (*	Please choose the ap	propriate respon
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
	Tery reservance		nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	ŏ	0	Ŏ	Ŏ	0	Ŏ
Relevance globally	Ö	Ŏ	$\vdash$ $\stackrel{\sim}{\circ}$	ŏ	ŏ	$\sim$
						Dlassa shaasa tha
3. <u>Feasibility for regular collection:</u> Rat ppropriate response for each item)	e Prevalence of cur	rent betei quid use amoi	ig persons aged 15 ye	ars and older in ter	IIIS 01 ( * F	riease choose the
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
- 110 ·			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	O	0	0	O	0	0
Sensitivity to detect changes over tile     Please choose the appropriate respon	ise for each item)		-	-		
	Very sensitive	Somewhat sensitive	Neither sensitive nor insensitive	Somewhat insensitive	Completely insensitive	No answer/ I do not know
Sensitivity to change in my country	0	O	O	O	O	O
tisk factor of oral health / Harmful use						
At global level: WHO Global Health Observatory 2019 Related links: WHO Global Health Observatory 2019 Capita-(15-)-consumption  Elevance: Rate "Per capita total alcohors"	servatory: https://w					
esponse for each item)	T		T			
	Very relevant	Somewhat relevant		Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	Q	0	0	0	0
Relevance globally	O	0	0	0	0	0
<ol> <li>Feasibility for regular collection: Rat he appropriate response for each item;</li> </ol>		cohol consumption, 15+	years (liters of pure a	lcohol per year)" in t	terms of	(*Please choose
	Very feasible	Somewhat feasible	Neither feasible nor unfeasible	Somewhat unfeasible	Completely	No answer/ I do not know
Feasibility in my country	0	0	O	0	O	0
7. Sensitivity to detect changes over time		Per canita total alcohol c		s (liters of nure alco		
*Please choose the appropriate respon		r er capita total alcohore	onsamption, 15+ year	3 (inters of pure alco	morper year, mrterr	
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
Consitiuity to change in my country		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country isk factor of oral health / Diet (including	O O	0	0	0		0
· ·		. M				
Indicator name: "Per capita availabilit						
<b>Definition:</b> Availability (i.e., supply) of	sugar in grams per o	аріта.				
Preferred data source:						
At global level: Institute of Health Metrics and Evalua	tion and United Nati	one Food and Agricultura	Organization 2012			
48. Relevance: Rate "Per capita availabi				the annronriate resr	nonse for each item!	

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country		0	0	0	O	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0
9. Feasibility for regular collection: R	Rate "Per capita availab	ility of sugar (grams/day)	)" in terms of	(*Please choos	se the appropriate re	sponse for each
tem)						
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
	very reasible	Somewhat reasible	nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0
0. Sensitivity to detect changes over	time (by 2030): Rate "	Per capita availability of s	sugar (grams/day)" in	terms of	(*Please choose the	appropriate
esponse for each item)	<u> </u>					
		Community	National and the second second	Committee	Constant.	
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	O	O	0		0	0
isk factor of oral health / Diet (includ	ding sugar)					
Indicator name: "Per capita consum	nption of sugar (kilogra	m/year)"				
<b>Definition:</b> Per capita consumption	of sugar (kilogram/yea	r)				
Preferred data source:						
At global level:						
Organization for Economic Co-opera	ation Develonment (OF	CD) and the Food and Ag	ricultural Organizatio	n (FAO) of the Unite	nd Nations	
			gricultural Organizatio	ir (i AO) or the office	tu Nations.	
Related links: The OECD-FAO Agricu						
https://www.oecd-ilibrary.org/agric	culture-and-food/oecd-	tao-agricultural-outlook-	2021-2030_19428846	-en;jsessionid=AP8	1UPEUSBNEIJxPVnLR	g2_C.ip-10-240-5
<u>69</u>						
1. Relevance: Rate "Per capita consu	ımption of sugar (kilogi	ram/year)" in terms of	(*Please ch	oose the appropriat	e response for each i	tem)
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
	,		nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	ŏ	0		Ŏ	Ō	Ö
Relevance globally	Ŏ	Ö	8	Ŏ	ŏ	Ö
2. <u>Feasibility for regular collection:</u> R	rate "Per capita consun	iption of sugar (kilogram	/year)" in terms of	(*Please	choose the appropri	ate response for
ach item)						
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
	very reasible	Somewhat reasible				1
- 11 m			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0		O	0
3. Sensitivity to detect changes over	<u>time (by 2030):</u> Rate "	Per capita consumption o	of sugar (kilogram/yea	r)" in terms of	(*Please choos	e the appropriate
esponse for each item)						
			1 .			
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
isk factor of oral health / Oral hygier	ne and fluoride		·			·
, ,5						
Indicator name: "Population using f	fluoride toothpaste on	a daily basis"				
<b>Definition:</b> Proportion of the popular			nthnasta			
Preferred data source:	ation cleaning or brush	ing daily with hubblue tot	ottipaste.			
At country level:						
Population-based surveys (Conducti	ing the WHO STEPS Sur	vey using Oral Health Mo	odule & WHO Global S	School-based Studer	nt Health Survey)	
Related links:						
WHO STEPS survey - Oral Health Mo	odule: https://www.wh	io.int/teams/noncommu	nicable-diseases/surv	eillance/systems-too	ols/steps/instrument	
WHO Global School-based Student I						
tools/global-school-based-student-h						
4. Relevance: Rate "Population using			of (*Pleas	e choose the appror	oriate response for ea	ach item)
	5			approp		,
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
	121,70.0.0		nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country		0		O	O	
	0		0			0
Relevance to my WHO region	0				0	

			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0
55. Feasibility for regular collection: Rat	e "Population using flu	oride toothpaste on a	daily basis" in terms of	f (*Please	choose the appro	priate response
for each item)						

for each item)						
	Very feasible	Somewhat feasible	Neither feasible nor unfeasible	Somewhat unfeasible	Completely unfeasible	No answer/ I do not know

Feasibility in my country	O (by 2020): Bata "D	O anulation using fluorida	O taathaasta an a dailu	basis" in tarms of	O (*Dlagge sh	O
56. Sensitivity to detect changes over tine appropriate response for each item)	<u>ne (by 2030): </u> kate P	opulation using huoride	toothpaste on a daily	basis in terms of	("Please ch	loose the
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
Risk factors of oral health: You have nov	v finished responding	to questions concerning	g indicators of <u>"Risk fac</u>	ctors of oral health".		
Prevalence of current tobacc and older (age-standardized  Prevalence of smokeless tobace years and older  Prevalence of current betel of years and older  Please write your answ  British faction inclusion below. Please write your answ  Predata sources, age groups, data disaggree of years and populated at a sources, age groups, data disaggree of years and population. The extent to which oral head pefinition: The extent to which oral head pefinitions. The extent to which oral head pefinition of years and years an	rate) acco use among perso tors of oral health" th er here: garding the potential gation, etc. Please wri ation coverage  Ith interventions in pure lealth interventions are receive services, whi the general population try of Health (Responses) y Assessment and Health intervention and Health interventions are graphically sis the general population and Health (Responses)	ons aged 15  ns aged 15  at were not included bu  indicators listed above, ite your answer here:  ublic Health Benefit Pack e included in the largest le the term "governmer n, public sector employe ding to Health Technolo alth Benefit Package Sur plogy-assessment-and-b	alcohol Per cap Per cap Populat t that you believe shou that could assist to ref government health fir is defined as includices and/or the military gy Assessment and Bel vey 2021 - Results Das penefit-package-design	fine them further? For an ancing scheme. The ng any public sector so the fit Package Survey hboard: https://www./survey-homepage	or (grams/day) Igar (kilogram/yea) Igar (kilog	r) basis rationale for  ng the definitions  efined as having service provision,  D) ealth-systems-
59. <u>Relevance:</u> Rate "Inclusion of oral he each item)	eaith interventions in	public Health Benefit Pa	ckages" in terms of	(*Please cn	oose the appropri	ate response for
	Very relevant	Somewhat relevant	Neither relevant nor irrelevant	Somewhat irrelevant	Completely irrelevant	No answer/ I do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	Q	8	O	0	Q
Relevance globally	0	0		0	0	0
60. <u>Feasibility for regular collection:</u> Rat appropriate response for each item)	e "Inclusion of oral he	ealth interventions in pu	blic Health Benefit Pac	kages" in terms of	(*Please	choose the
	Very feasible	Somewhat feasible	Neither feasible nor unfeasible	Somewhat unfeasible	Completely unfeasible	No answer/ I do not know
Feasibility in my country	0	0	0	0	0	0
61. <u>Sensitivity to detect changes over tir</u> choose the appropriate response for each		nclusion of oral health in	terventions in public F	lealth Benefit Packag	es" in terms of	
	Very sensitive	Somewhat sensitive	Neither sensitive nor insensitive	Somewhat insensitive	Completely insensitive	No answer/ I do not know
Sensitivity to change in my country	0	0	0	0	0	0
UHC for oral health / Service and popula  Indicator name: "Availability of oral he  Definition: Availability of procedures f	ation coverage	primary care facilities of	the public health sect	or"	-	
refers to reaching 50% or more patien It includes: - availability of oral health screening for availability of urgent treatment for processial part of the availability of basic restorative dentative dentati	or early detection of coroviding emergency of procedures to treat  y of Health (Responding type)	oral diseases oral care and pain relief existing dental decay ing to WHO NCD Countr	y Capacity Survey) /monitoring-capacity/	ncdccs		noose the
appropriate response for each item)		, , , , , , , , , , , , , , , , , , , ,			( 1 1220 0	<del>-</del>

					T	
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ö	0	Ö	0	0	0
Relevance globally	Ŏ	Ŏ	ŏ	Ŏ	Ŏ	ŏ
3. Feasibility for regular collection: Rate			rimary care facilities o			
· ·		nearth care services in p	illiary care racilities c	ir the public health sec	tor in terms or	•••••
Please choose the appropriate respons	se for each item)					
			I	1		
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	Ο	0
4. Sensitivity to detect changes over tir		Availability of oral boalth		ry care facilities of the		or" in torms of
			care services in prima	ry care racilities or the	public fleatiff secti	or in terms on
(*Please choose the appropriate r	esponse for each ite	m)				
	T		T	1	1	1
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/
		sensitive	nor insensitive	insensitive	insensitive	do not knov
Sensitivity to change in my country	0	0	0	0	0	0
HC for oral health / Service and popula		, ,				
ic for oral fleattiff Service and popula	tion coverage					
<del></del>						
Indicator name: "Proportion of the po	pulation who visited	an oral health care profe	essional"			
Definition: Proportion of the population	on who visited an ora	al health care professiona	al within a certain peri	od of time (eg questio	n: "Did vou consult	with an oral
health professional during the past year					,	
Preferred data source:	, j.					
At country level:						
Population-based survey						
Related links:						
The WHO STEPS survey—Oral Health N	Andula: https://www	who int/teams/noncon	nmunicahla-disaasas/s	curvaillanca/systams_tr	ools/stans/instrum	ont
5. <u>Relevance:</u> Rate "Proportion of the p	opulation who visite	d an oral health care pro	ofessional" in terms of	(*Please c	hoose the appropi	riate response
ach item)						
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/
	very relevant	Somewhat relevant				
	_		nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country		0	0	0	0	
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	Ŏ	Õ	Ŏ	Ŏ	0	Ŏ
	- IID			f:	/*Dl	
5. Feasibility for regular collection: Rate	e Proportion of the	population who visited a	in oral nealth care pro	ressional in terms of	(*Piea	ase choose the
opropriate response for each item)						
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/
	,		nor unfeasible	unfeasible	unfeasible	do not know
Facathilit. in an annatur.	0	0	_	O	anneasible	_
Feasibility in my country			0			
7. Sensitivity to detect changes over tir	<u>ne (by 2030):</u> Rate "F	Proportion of the popular	tion who visited an ora	al health care profession	nal" in terms of	(*Plea
noose the appropriate response for each	ch item)					
	,					
• • • •			Niaith an agustina	Somewhat	Completely	No answer/
	Very sensitive	Somowhat			Completely	
	Very sensitive	Somewhat	Neither sensitive			
		sensitive	nor insensitive	insensitive	insensitive	do not know
	Very sensitive	sensitive				do not know
Sensitivity to change in my country	0		nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country HC for oral health / Service and popula	O tion coverage	sensitive	nor insensitive	insensitive	insensitive	do not knov
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet	O tion coverage oral health needs (a	sensitive O  nd reasons for unmet ne	nor insensitive O	insensitive	insensitive	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet	O tion coverage oral health needs (a	sensitive O  nd reasons for unmet ne	nor insensitive O	insensitive	insensitive	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populatio	O tion coverage oral health needs (a	sensitive O  nd reasons for unmet ne ral health care when the	nor insensitive O eds)" by perceive the need (6	insensitive O	insensitive O	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationed for oral health care but not been	oral health needs (an unable to obtain of able to obtain it?").	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral l	eds)"  y perceive the need (enealth needs would in	insensitive O	insensitive O	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationeed for oral health care but not been transportation/geographic (too far to to	oral health needs (an unable to obtain of able to obtain it?").	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral l	eds)"  y perceive the need (enealth needs would in	insensitive O	insensitive O	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationeed for oral health care but not been transportation/geographic (too far to to Preferred data source:	oral health needs (an unable to obtain of able to obtain it?").	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral l	eds)"  y perceive the need (enealth needs would in	insensitive O	insensitive O	do not know
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Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationeed for oral health care but not been transportation/geographic (too far to to) Preferred data source: At country level: Population-based survey	oral health needs (a n unable to obtain o able to obtain it?").	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral l	eds)"  y perceive the need (enealth needs would in	insensitive O	insensitive O	do not knov
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationeed for oral health care but not been transportation/geographic (too far to to Preferred data source: At country level: Population-based survey Related links: OECD Unmet needs for or	oral health needs (a n unable to obtain o able to obtain it?"). cravel), or timeliness	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral I (long waiting lists) reaso	eds)"  y perceive the need (enealth needs would in the ins.	insensitive O	insensitive O	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationed for oral health care but not been transportation/geographic (too far to to Preferred data source: At country level: Population-based survey Related links: OECD Unmet needs for oth https://www.oecd.org/health/health-service and population-based survey	Otion coverage  oral health needs (an unable to obtain of able to obtain it?").  cravel), or timeliness  oral health care:  systems/Unmet-Nee	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral I (long waiting lists) reaso	nor insensitive O  eds)"  y perceive the need (enealth needs would in ins.	insensitive O  e.g. question "during the clude financial (too exp	e past year, have bensive),	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationed for oral health care but not been transportation/geographic (too far to to Preferred data source: At country level: Population-based survey Related links: OECD Unmet needs for oth https://www.oecd.org/health/health-service and population-based survey	Otion coverage  oral health needs (an unable to obtain of able to obtain it?").  cravel), or timeliness  oral health care:  systems/Unmet-Nee	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral I (long waiting lists) reaso	nor insensitive O  eds)"  y perceive the need (enealth needs would in ins.	insensitive O  e.g. question "during the clude financial (too exp	e past year, have bensive),	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationeed for oral health care but not been transportation/geographic (too far to to Preferred data source: At country level: Population-based survey Related links: OECD Unmet needs for of https://www.oecd.org/health/health-s 8. Relevance: Rate "Prevalence of unmet	Otion coverage  oral health needs (an unable to obtain of able to obtain it?").  cravel), or timeliness  oral health care:  systems/Unmet-Nee	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral I (long waiting lists) reaso	nor insensitive O  eds)"  y perceive the need (enealth needs would in ins.	insensitive O  e.g. question "during the clude financial (too exp	e past year, have bensive),	do not know
Sensitivity to change in my country HC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationeed for oral health care but not been transportation/geographic (too far to to Preferred data source: At country level: Population-based survey Related links: OECD Unmet needs for of https://www.oecd.org/health/health-s 8. Relevance: Rate "Prevalence of unmet	Otion coverage  oral health needs (an unable to obtain of able to obtain it?").  cravel), or timeliness  oral health care:  systems/Unmet-Nee	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral I (long waiting lists) reaso	nor insensitive O  eds)"  y perceive the need (enealth needs would in ins.	insensitive O  e.g. question "during the clude financial (too exp	e past year, have bensive),	do not know
Sensitivity to change in my country UHC for oral health / Service and popula Indicator name: "Prevalence of unmet Definition: Proportion of the populationeed for oral health care but not been transportation/geographic (too far to to the preferred data source: At country level: Population-based survey Related links: OECD Unmet needs for on the preferred data source: At country level: Population-based survey Related links: OECD Unmet needs for on the preferred data source: Rate "Prevalence of unmet needs for on the preferred data source." Relevance: Rate "Prevalence of unmet needs for on the preferred data source."	Otion coverage  oral health needs (an unable to obtain of able to obtain it?").  cravel), or timeliness  oral health care:  systems/Unmet-Nee	sensitive O  nd reasons for unmet ne ral health care when the Reasons for unmet oral I (long waiting lists) reaso	nor insensitive O  eds)"  y perceive the need (enealth needs would in ins.	insensitive O  e.g. question "during the clude financial (too exp	e past year, have bensive),	do not know

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0

English to the second	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country  O. Sensitivity to detect changes over time	O (by 2020): Pato "Pi	O Covalence of unmet oral	O health needs (and res	Output pands)'	in terms of	(*Place
noose the appropriate response for each		revalence of uniffiet oral	nealth needs (and rea	ison for uniffiet fleeds)	in terms or	(*Please
	Very sensitive	Somewhat sensitive	Neither sensitive nor insensitive	Somewhat insensitive	Completely	No answer/ I do not know
Sensitivity to change in my country	0	O	O	O	O	O
JHC for oral health / Service and populati			ding to questions con-	cerning indicators of "I	JHC for oral healt	h" (Subcategory
Inclusion of oral health interver Packages Availability of oral health care the public health sector  Are there any indicators of "UHC for oral or	services in primary of the potential ation, etc. Please wriprotection	gory of <u>"Service/popula</u> e write your answer here indicators listed above, te your answer here:	profess Prevale needs)  tion coverage") that we:  that could assist to re	nce of unmet oral hea vere not included but t fine them further? For	lth needs (and rea hat you believe sh example, regardii	ison for unmet nould be? Please
Global Health Expenditure Database						
Related links: WHO Global Health Exper	nditure Database. A	vailable from: https://ap	ps.who.int/nha/datak	<u>ase</u>		
3. <u>Relevance:</u> Rate "Per capita expenditu					sponse for each it	tem)
	Very relevant	Somewhat relevant	Neither relevant nor irrelevant	Somewhat irrelevant	Completely irrelevant	No answer/ I do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	8	0	0	0
Relevance globally	0	0	_	_	0	0
4. <u>Feasibility for regular collection:</u> Rate ach item)	Per capita expendit	ture on oral nealth care	(US\$)" In terms of	(*Please cno	ose the appropria	ite response for
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
	very leasible	Somewhat leasible	nor unfeasible	unfeasible	unfeasible	do not know
	0	0	O	O	O	
Feasibility in my country		_	_	_		( )
Feasibility in my country		er canita expenditure or	oral health care (USS	)" in terms of		the appropriate
75. Sensitivity to detect changes over time		er capita expenditure or	n oral health care (US\$	)" in terms of		
75. Sensitivity to detect changes over time	e (by 2030): Rate "Po	er capita expenditure or	oral health care (US\$	)" in terms of Somewhat	(*Please choose	the appropriate
75. Sensitivity to detect changes over time		Somewhat	Neither sensitive	Somewhat	(*Please choose	the appropriate
75. Sensitivity to detect changes over time	e (by 2030): Rate "Po			,	(*Please choose	the appropriate
75. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country	e (by 2030): Rate "Po	Somewhat sensitive	Neither sensitive nor insensitive	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
75. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country	e (by 2030): Rate "Po	Somewhat sensitive	Neither sensitive nor insensitive	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
75. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country	e (by 2030): Rate "Po Very sensitive O protection	Somewhat sensitive	Neither sensitive nor insensitive	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
5. Sensitivity to detect changes over timesponse for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial	e (by 2030): Rate "Power Sensitive  Oprotection ta expenditure on or	Somewhat sensitive O al health, US\$ per capita	Neither sensitive nor insensitive	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
75. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial  Indicator name: "Government per capit  Definition: Domestic general governme  Preferred data source:	e (by 2030): Rate "Power Sensitive  Oprotection ta expenditure on or	Somewhat sensitive O al health, US\$ per capita	Neither sensitive nor insensitive	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
75. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial  Indicator name: "Government per capit  Definition: Domestic general governme  Preferred data source:  At country level:	e (by 2030): Rate "Power Sensitive  Oprotection ta expenditure on or	Somewhat sensitive O al health, US\$ per capita	Neither sensitive nor insensitive	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
25. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial  Indicator name: "Government per capit  Definition: Domestic general governme  Preferred data source:  At country level:  National Health Accounts	e (by 2030): Rate "Power Sensitive  Oprotection ta expenditure on or	Somewhat sensitive O al health, US\$ per capita	Neither sensitive nor insensitive	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
75. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial  Indicator name: "Government per capit  Definition: Domestic general governme  Preferred data source:  At country level:  National Health Accounts  At global level:	e (by 2030): Rate "Power Sensitive  Oprotection ta expenditure on or	Somewhat sensitive O al health, US\$ per capita	Neither sensitive nor insensitive	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
25. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial  Indicator name: "Government per capit  Definition: Domestic general governme  Preferred data source:  At country level:  National Health Accounts  At global level:  Global Health Expenditure Database	e (by 2030): Rate "Po Very sensitive O protection ta expenditure on or	Somewhat sensitive O al health, US\$ per capita apita on oral health car	Neither sensitive nor insensitive O	Somewhat insensitive	(*Please choose  Completely insensitive	No answer/ I do not know
25. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial  Indicator name: "Government per capit  Definition: Domestic general governme  Preferred data source:  At country level:  National Health Accounts  At global level:  Global Health Expenditure Database  Related links: WHO Global Health Expen	e (by 2030): Rate "Post of the Composition of the Expenditure on or the Expenditure per composition of the Expenditure of the Expenditur	Somewhat sensitive O al health, US\$ per capita apita on oral health car	Neither sensitive nor insensitive O  a" e	Somewhat insensitive O	Completely insensitive	No answer/ I do not know
ZS. Sensitivity to detect changes over time esponse for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial indicator name: "Government per capit Definition: Domestic general governme  Preferred data source: At country level: National Health Accounts At global level: Global Health Expenditure Database  Related links: WHO Global Health Expended. Relevance: Rate "Government per capital indicators and indicators are senting to the	e (by 2030): Rate "Post of the Composition of the Expenditure on or the Expenditure per composition of the Expenditure of the Expenditur	Somewhat sensitive O al health, US\$ per capita apita on oral health car	Neither sensitive nor insensitive O  a" e	Somewhat insensitive O	Completely insensitive	No answer/ I do not know
75. Sensitivity to detect changes over time response for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial Indicator name: "Government per capit Definition: Domestic general governme Preferred data source: At country level: National Health Accounts At global level: Global Health Expenditure Database Related links: WHO Global Health Expendre. Relevance: Rate "Government per capital Relevance of the source o	e (by 2030): Rate "Post of the Composition of the Expenditure on or the Expenditure per composition of the Expenditure of the Expenditur	Somewhat sensitive O al health, US\$ per capita apita on oral health car	Neither sensitive nor insensitive O  a" e	Somewhat insensitive O	Completely insensitive	No answer/ I do not know
75. Sensitivity to detect changes over time response for each item)  Sensitivity to change in my country  JHC for oral health / Financing/Financial Indicator name: "Government per capit Definition: Domestic general governme Preferred data source: At country level: National Health Accounts At global level: Global Health Expenditure Database Related links: WHO Global Health Expendre. Relevance: Rate "Government per capital Relevance of the source o	e (by 2030): Rate "Post of the Composition of the Expenditure on or the Expenditure per composition of the Expenditure Database. As of the Expenditure on or the Expenditure on the Expe	Somewhat sensitive O al health, US\$ per capita capita on oral health care vailable from: https://ap	Neither sensitive nor insensitive O  a" e	Somewhat insensitive O	Completely insensitive	No answer/ I do not know
75. Sensitivity to detect changes over time response for each item)  Sensitivity to change in my country UHC for oral health / Financing/Financial Indicator name: "Government per capit Definition: Domestic general governme Preferred data source: At country level: National Health Accounts At global Health Expenditure Database Related links: WHO Global Health Expenditors. Relevance: Rate "Government per capitors."	e (by 2030): Rate "Post of the Composition of the Expenditure on or the Expenditure per composition of the Expenditure of the Expenditur	Somewhat sensitive O al health, US\$ per capita apita on oral health car	Neither sensitive nor insensitive O  a" e  ps.who.int/nha/datat ita" in terms of	Somewhat insensitive O  O  Somewhat  insensitive O  Somewhat	Completely insensitive  O  Completely completely completely	No answer/ I do not know O  esponse for each
75. Sensitivity to detect changes over time response for each item)  Sensitivity to change in my country UHC for oral health / Financing/Financial Indicator name: "Government per capit Definition: Domestic general governme Preferred data source: At country level: National Health Accounts At global level: Global Health Expenditure Database Related links: WHO Global Health Expendition: Rate "Government per capitem)	Very sensitive  O protection ta expenditure on orent expenditure per orent expenditure on orent expenditure.	Somewhat sensitive  O  al health, US\$ per capita capita on oral health care vailable from: https://ap oral health, US\$ per capita Somewhat relevant	Neither sensitive nor insensitive O  a" e  ps.who.int/nha/datat ita" in terms of	Somewhat insensitive O  Somewhat irrelevant	Completely insensitive  Completely insensitive  Completely insensitive	No answer/ I do not know  O  Pesponse for each  No answer/ I do not know
75. Sensitivity to detect changes over time response for each item)  Sensitivity to change in my country  UHC for oral health / Financing/Financial Indicator name: "Government per capit Definition: Domestic general governme Preferred data source: At country level: National Health Accounts At global level: Global Health Expenditure Database  Related links: WHO Global Health Expenditore Details Expenditore Capitals Relevance: Rate "Government per capitals Relevance: Rate "Government pe	e (by 2030): Rate "Post of the Composition of the Expenditure on or the Expenditure per composition of the Expenditure Database. As of the Expenditure on or the Expenditure on the Expe	Somewhat sensitive O al health, US\$ per capita capita on oral health care vailable from: https://ap	Neither sensitive nor insensitive O  a" e  ps.who.int/nha/datat ita" in terms of	Somewhat insensitive O  O  Somewhat  insensitive O  Somewhat	Completely insensitive  O  Completely completely completely	No answer/ I do not know O  esponse for each

appropriate response for each item)						
	Very feasible	Somewhat feasible	Neither feasible nor unfeasible	Somewhat unfeasible	Completely unfeasible	No answer/ I do not know
Feasibility in my country	0	0	0	0	0	0
Sensitivity to detect changes over tile appropriate response for each item		Government per capita e	xpenditure on oral he	alth, US\$ per capita" ir	terms of	(*Please choo
	Very sensitive	Somewhat sensitive	Neither sensitive nor insensitive	Somewhat insensitive	Completely insensitive	No answer/ I
Sensitivity to change in my country	0	0	0	O	O	0
Indicator name: "Out-of-pocket paym Definition: Out of pocket payments for Preferred data source: At country level: - Household survey Related links: WHO Global Health Exp OECD.Stat Database: https://stats.oec D. Relevance: Rate "Out-of-pocket pay	enditure Database (pd. org/ ment for oral health	s are any direct payment: private health expenditur	in terms of  Neither relevant nor irrelevant	(*Please choose the Somewhat irrelevant	/database	onse for each ite No answer/ do not know
Relevance to my country	0		O O	0		0
Relevance to my WHO region Relevance globally	0	0	8	0	0	0
D. <u>Feasibility for regular collection:</u> Ratesponse for each item)	e "Out-of-pocket pay  Very feasible	ment for oral health sen	Neither feasible	Somewhat	Completely	No answer/
Feasibility in my country	0		nor unfeasible	unfeasible	unfeasible	do not know
	Very sensitive	Somewhat sensitive	Neither sensitive nor insensitive	Somewhat insensitive	Completely	No answer/
Sensitivity to change in my country	0	0	0	O	O	0
HC for oral health / Financing/Financia Indicator name: "Share of out-of-pock Definition: Average share of out-of-pock	et payments spent c	on dental care among peo			ding	
Preferred data source: At country level: - Household survey Related links: WHO EURO Universal h https://www.euro.who.int/en/health- Global monitoring report on financial https://apps.who.int/iris/bitstream/h. Sustainable Development Goals: impa https://iris.paho.org/handle/10665.2/	topics/Health-syster protection in health andle/10665/331748 ct of lack of financial	ns/health-systems-finand 2019: 8/9789240003958-eng.pd	<u>lf</u>		tection	
<ol> <li><u>Relevance:</u> Rate "Share of out-of-pone appropriate response for each item</li> </ol>		on dental care among p  Somewhat relevant	eople with catastroph  Neither relevant	ic health spending" in Somewhat	Completely	(*Please cho
Delevence to reverse			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	$+$ $\circ$	0	0	0		0
Relevance to my WHO region	0	0	8	0	0	0
Relevance globally  B. <u>Feasibility for regular collection:</u> Rat  Ration (*Please choose the appropriate in the second sec						in terms of
	Very feasible	Somewhat feasible	Neither feasible nor unfeasible	Somewhat unfeasible	Completely unfeasible	No answer/ do not know
Feasibility in my country	0	0	0	0	0	0

77. Feasibility for regular collection: Rate "Government per capita expenditure on oral health, US\$ per capita" in terms of............ (\*Please choose the

Relevance globally

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country			0	0	0	0

Indicator name: "Percentage of the population facing financial barriers to oral health care"

Definition: Percentage of the population who do not receive oral health care for financial reasons

Preferred data source:

At country level:

- Household survey

Related links: OECD Unmet needs for oral health care:

https://www.oecd.org/health/health-systems/Unmet-Needs-for-Health-Care-Brief-2020.pdf

WHO EURO Universal health coverage: financial protection:
https://www.euro.who.int/en/health-topics/Health-systems/health-systems-financing/universal-health-coverage-financial-protection

85. Relevance: Rate "Percentage of the population facing financial barriers to oral health care" in terms of ........ (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ö	0	Ō	0	0	0
Relevance globally	0	0	0	0	0	0

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

87. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "Percentage of the population facing financial barriers to oral health care" in terms of...... (\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0

UHC for oral health / Financing/Financial protection: You have now finished responding to questions concerning indicators of "UHC for oral health" (Subcategory of "Financing/Financial protection").

- Per capita expenditure on oral health care (US\$)
- Government per capita expenditure on oral health, US\$ per capita
- Out-of-pocket payment for oral health services, US\$ per capita
- Share of out-of-pocket payments spent on dental care among people with catastrophic health spending
- Percentage of the population facing financial barriers to dental
   care
- 88. Are there any indicators of "UHC for oral health" (Subcategory of "Financing/Financial protection") that were not included but that you believe should be? Please provide a name and brief rationale for inclusion below. Please write your answer here:
- 89. Do you have any other comments regarding the potential indicators listed above, that could assist to refine them further? For example, regarding the definitions, data sources, age groups, data disaggregation, etc. Please write your answer here:

UHC for oral health / Medicines, equipment, devices, digital technology, and other health products

Indicator name: "WHO EMLs dental preparations are listed in the national EML (or similar)"

**Definition:** The extent to which dental preparations on the WHO Essential Medicines List and WHO Essential Medicines List for children are listed in the national Essential Medicines List (or similar). Responses can be disaggregated by dental preparation (fluoride, glass ionomer cement, and silver diamine fluoride) and/or the amount of dental preparations (1,2 or all).

## Preferred data source:

At country level:

- Government representative at Ministry of Health (Chief dental officer/Oral health unit responding to a questionnaire to be conducted by WHO)

# Related links:

WHO Model List of Essential Medicines - 22nd List, 2021: https://apps.who.int/iris/bitstream/handle/10665/345533/WHO-MHP-HPS-EML-2021.02-eng.pdf

90. Relevance: Rate "WHO EMLs dental preparations are listed in the national EML" in terms of ................ (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0

Indicator name: "Affordability of fluor		Lall (Classical Control of Contro	(4) - Cl-b ' '	dender II CC 12	alallite and a st	- d (- d ) - f
<b>Definition:</b> Fluoride toothpaste is cate	-	The state of the s	1) of labour is neede	d and as "unaffordal	ble" if more than one	e day (>1 ) of
labour is needed to buy the annual su	pply for one individu	al.				
Preferred data source:						
At country level:						
- Government representative at Minis	try of Health (Chief o	lental officer/Oral health	unit responding to a d	questionnaire to be	conducted by WHO)	
At global level:						
- WHO Consultation 2019						
3. Relevance: Rate "Affordability of flu	oride toothpaste" in	terms of (*Ple	ease choose the appro	priate response for	each item)	
		Communication and	National and a second	C b	Constant	NI
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/
Dalaman I.		0	nor irrelevant	irrelevant	irrelevant	do not knov
Relevance to my country	0		0	0		0
Relevance to my WHO region	0	<u> </u>	8	0	0	0
Relevance globally	0	O	_	0	0	O
I. Feasibility for regular collection: Rat	te "Affordability of flu	uoride toothpaste" in terr	ns of (*I	Please choose the ap	propriate response	for each item)
				1		
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0		
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	\ / i+i	Somewhat	Neither sensitive	Somewhat	Completely	No answer/
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91. Feasibility for regular collection: Rate "WHO EMLs dental preparations are listed in the national EML" in terms of......(\*Please choose the appropriate response for

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JHC for oral health / Workforce	-	<u> </u>	<u>'</u>		·	
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Indicator name: "Primary healthcare v						
<b>Definition:</b> Proportion of primary heal Primary healthcare workers exclude of technicians). Cost-effective intervention	ral health care perso	nnel (dentists, dental ass	sistants, therapists, de			
Preferred data source: At country level:	· ·	.,				
Non-dental health professional trainin	g institutions					
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(*Please choose the approp			a. c. aca to peri			
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
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Feasibility in my country	Very feasible	Somewhat feasible			unfeasible	do not know
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03. Sensitivity to detect changes over t	O ime (by 2030): Rate f (*Please	O "Primary healthcare wor	nor unfeasible O kers (inc. community l	unfeasible O nealthcare workers)	unfeasible O	do not know
03. Sensitivity to detect changes over t	O ime (by 2030): Rate	O "Primary healthcare wor	nor unfeasible O kers (inc. community l	unfeasible O nealthcare workers)	unfeasible O are trained to perfor	do not know
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O3. Sensitivity to detect changes over the nterventions on oral health." in terms of the sensitivity to change in my country OHC for oral health / Workforce  Indicator name: "Annual graduates of Definition: Density of annual graduates dentists; 2) dental assistants and there are preferred data source: At country level: Routine administrative data from Detection At global level: National Health Workforce Accounts O4. Relevance: Rate "Annual graduates desponse for each item)  Relevance to my country Relevance to my WHO region Relevance globally O5. Feasibility for regular collection: Rate of the sensitivity of the s	O ime (by 2030): Rate of (*Please of (*Pleas	O"Primary healthcare work choose the appropriate  Somewhat sensitive  O  Lel, all cadres (per 10,000 onnel during the last yea sts; and dental nurses; a ginstitutes  for dentists)  nnel, all cadres (per 10,0  Somewhat relevant  O O S of oral health personne  Somewhat feasible  O	nor unfeasible Okers (inc. community I response for each iter Neither sensitive nor insensitive Oppulation)" r per 10,000 population of the prostheti Oppulation of the prostheti Neither relevant nor irrelevant Oppulation of the prostheti Neither feasible nor unfeasible Oppulation of the prostheti	unfeasible O nealthcare workers) m)  Somewhat insensitive O on. Recent graduate c technicians.  MS of	unfeasible O are trained to perfor  Completely insensitive O  Felease choose the ap  Completely irrelevant O orms of	do not know O m cost-effective  No answer/ I do not know O ofessions: 1)  propriate  No answer/ I do not know O (*Please choose  No answer/ I do not know O O (*Please choose

99. Feasibility for regular collection: Rate "Oral health personnel (per 10,000 population)" in terms of............ (\*Please choose the appropriate response for each

item)

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
	,	sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
UHC for oral health / Workforce: You have	ve now finished respo	onding to questions co	ncerning indicators of "	UHC for oral health" (Su	bcategory of <u>"W</u>	orkforce").
Oral health personnel (per 10)	, , , ,					
<ul> <li>Primary healthcare workers (</li> </ul>	=	· ·	•	fective interventions on	oral health.	
<ul> <li>Annual graduates of oral heal</li> </ul>	Ith personnel, all cadr	es (per 10,000 popula	tion)			
107. Are there any indicators of "UHC fo and brief rationale for inclusion below. P		·	) that were not included	but that you believe sh	ould be? Please p	orovide a name

data sources, age groups, data disaggregation, etc. Please write your answer here:

Governance

Indicator name: "Presence of dedicated staff for oral diseases in the NCD Department or other Department of the Ministry of Health"

**Definition:** Presence of a technical/professional staff in the unit/branch/department working on NCDs or another department in the Ministry of Health dedicating a significant portion of their time to oral diseases.

108. Do you have any other comments regarding the potential indicators listed above, that could assist to refine them further? For example, regarding the definitions,

## Preferred data source:

At country level:

Government representative at Ministry of Health (Responding to WHO NCD Country Capacity Survey)

Related links: WHO NCD Country Capacity Survey: https://www.who.int/teams/ncds/surveillance/monitoring-capacity/ncdccs

	Very relevant	Somewhat relevant	Neither relevant nor irrelevant	Somewhat irrelevant	Completely irrelevant	No answer/ I do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0

110. <u>Feasibility for regular collection:</u> Rate "Presence of dedicated staff for oral diseases in the NCD Department or other Department of the Ministry of Health" in terms of.............. (\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

111. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "Presence of dedicated staff for oral diseases in the NCD Department or other Department of the Ministry of Health" in terms of...... (\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0

Governance

Indicator name: "Existence of a national oral health policy, strategy, or action plan"

**Definition:** Existence of a policy, strategy, or action plan for oral health available in the respective country.

# Preferred data source:

At country level:

Government representative at Ministry of Health (Responding to WHO NCD Country Capacity Survey)

Related links: WHO NCD Country Capacity Survey: <a href="https://www.who.int/teams/ncds/surveillance/monitoring-capacity/ncdccs">https://www.who.int/teams/ncds/surveillance/monitoring-capacity/ncdccs</a>

112. Relevance: Rate "Existence of a national oral health policy, strategy, or action plan" in terms of ........ (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0

113. <u>Feasibility for regular collection</u>: Rate "Existence of a national oral health policy, strategy, or action plan" in terms of............... (\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

114. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "Existence of a national oral health policy, strategy, or action plan" in terms of...... (\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
overnance						
ndicator name: "Noma recognized as	a national public hea	lth problem"				
Definition: Noma (cancrum oris) is a n	on-communicable ne	crotizing disease that sta	arts as a lesion of the	rums inside the mou	th and destroys the	soft and hard
tissues of the mouth and face. Countr						
health problem. Indicator being consid			g			
	,	, , ,				
Preferred data source:						
At regional level:						
Regional Noma Control Programme in	WHO African Region					
.5. Relevance: Rate "Noma recognized	as a national public	health problem" in term	s of (*Plea	ise choose the appr	opriate response for	each item)
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/
	very relevant	Somewhat relevant	nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country		0	_	O	O	O
Relevance to my WHO region	0	0	0	0	Ö	0
· · · · · ·	$\vdash$ $\stackrel{\circ}{\sim}$	Ö	8	ŏ	Ö	Ö
Relevance globally	to "Nome recognizer					
L6. <u>Feasibility for regular collection:</u> Ra	ite Noma recognized	as a national public nea	iith problem in terms	οτ (* PI	ease choose the appr	opriate respons
r each item)						
	Manufacilla	Somewhat feasible	Naith an fanaibh	Canaanihat	Camanlatali	Na anamar/
	Very feasible	Somewhat leasible	Neither feasible nor unfeasible	Somewhat unfeasible	Completely unfeasible	No answer/
Consibility in my country	0	0	_	O		
Feasibility in my country			O		O (*8)	<u> </u>
.7. Sensitivity to detect changes over t	ime (by 2030): Rate	Noma recognized as a n	ational public nealth p	problem" in terms of	T (**Please c	noose the
propriate response for each item)						
	Von consitivo	Somewhat	Neither sensitive	Somewhat	Completely	No answor/
	Very sensitive				Completely	No answer/
		sensitive	nor insensitive	insensitive	insensitive	do not know
C 111 11 - 1   1					( )	$\sim$
Sensitivity to change in my country	0	0	0	0	0	0
Sensitivity to change in my country overnance	0	0	0	0	O	0
overnance			0	0		0
overnance Indicator name: "Implementation of ta	ax on sugar-sweeten	ed beverages (SSBs)"				-
overnance Indicator name: "Implementation of ta Definition: Country has implemented	ax on sugar-sweeten	ed beverages (SSBs)"				-
overnance Indicator name: "Implementation of table Definition: Country has implemented rates.	ax on sugar-sweeten	ed beverages (SSBs)"				-
overnance Indicator name: "Implementation of tage Definition: Country has implemented rates. Preferred data source:	ax on sugar-sweeten	ed beverages (SSBs)"				-
overnance Indicator name: "Implementation of ta Definition: Country has implemented rates. Preferred data source: At country level:	ax on sugar-sweetend a tax on sugar-sweet	ed beverages (SSBs)" ened beverages. "Yes" re	esponses refer to the a			-
overnance Indicator name: "Implementation of table Definition: Country has implemented rates. Preferred data source: At country level: Government representative at Ministr	ax on sugar-sweetend a tax on sugar-sweet y of Health (Respond	ed beverages (SSBs)" ened beverages. "Yes" re ling to WHO NCD Countr	esponses refer to the a	pplication of excise	taxes and/or special	-
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**Definition:** Existence of a national policy, strategy, or action plan with a specific goal or action towards reducing sugars intake. Specific goal or action could refer to measures such as:

•Taxes: Sugar-sweetened beverages taxes, taxes on sugars or on foods high in sugars
•Nutrition labeling: Front-of-pack or other interpretative labeling/claim to indicate healthier food choices related to sugars

WHO Global database on the impleme	entation of nutrition	action (GINA)				
Related links: WHO NCD Country Capa	acity Survey: https://	www.who.int/teams/nco	ds/surveillance/monit	oring-capacity/ncdco	<u>S</u>	
21. Relevance: Rate "National policies,	strategies or action	plans with a specific polic	cy goal or action towa	rds reducing sugars i	ntake" in terms of	(*Pleas
hoose the appropriate response for ea	ch item)					
	1					
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	O O	0	0	0
Relevance to my WHO region	0	0	8	0	0	0
Relevance globally	<u> </u>	<u> </u>				<u> </u>
22. Feasibility for regular collection: Ra	· · · · · · · · · · · · · · · · · · ·		is with a specific polic	cy goal or action towa	ards reducing sugars	intake" in terms
f (*Please choose the app	propriate response to	or each item)				
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
	very reasible	Somewhat reasible	nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	O	O	O	0
23. Sensitivity to detect changes over				vith a specific policy of		
ntake" in terms of (*Please c				intil a specific policy (	our or action toward	is readening sugare
tuke in terms ordinin ( r lease e	noose the appropria	te response for each item	',			
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
	,	sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
Governance						
Indicator name: "National policy or le	gislation to contain a	II forms of tobacco consu	ımption"			
	iework Convention o	n Tobacco Control (FCTC	) with a complete poil	icy on all forms of to	bacco taxation.	
			-l			
Specific measures for smokeless tobac	·	· -			•	roducts, 3)
	·	· -			•	roducts, 3)
Specific measures for smokeless tobac pictorial health warnings on smokeles: <b>Preferred data source:</b> At country leve	s tobacco products,	· -			•	roducts, 3)
Specific measures for smokeless tobac pictorial health warnings on smokeless <b>Preferred data source:</b> At country level Country profile in the MPOWER	s tobacco products,	· -			•	roducts, 3)
Specific measures for smokeless tobac pictorial health warnings on smokeles: <b>Preferred data source:</b> At country leve	s tobacco products,	· -			•	roducts, 3)
Specific measures for smokeless tobac pictorial health warnings on smokeles: Preferred data source: At country leve Country profile in the MPOWER At global level: FCTC EMPOWER report	s tobacco products, 4 el:	1) ban on smokeless toba	cco advertisement, pi		•	roducts, 3)
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Specific measures for smokeless tobac pictorial health warnings on smokeles:  Preferred data source: At country leve Country profile in the MPOWER At global level:  FCTC EMPOWER report  Related links: FCTC EMPOWER report 24. Relevance: Rate "National policy or	s tobacco products, 4 el: : https://apps.who.ir	1) ban on smokeless toba	cco advertisement, pr	romotion, and spons	orships.	
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•Reformulation limits or targets to reduce sugars content in foods and beverages
•Public food procurement and service policies to reduce the offer of food high in sugars
•Restriction of marketing of food and non-alcoholic beverages high in sugars to children

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ö	0	Ö	0	0	0
Relevance globally	Ŏ	Ŏ	Ŏ	Ŏ	Ō	Ŏ
128. <u>Feasibility for regular collection:</u> Ra	ate "Water fluoridation	n" in terms of	(*Please choose t	he appropriate respons	se for each item)	
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	O
129. <u>Sensitivity to detect changes over t</u>	time (by 2030): Rate "	Water fluoridation" in to	erms of (*P	lease choose the appro	priate response f	or each item)
	Voncensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
	Very sensitive	sensitive	nor insensitive	insensitive	Completely insensitive	do not know
Consitiuity to shange in my country	0		O		O	O
Sensitivity to change in my country Governance		0		0		
Jovernance						
Indicator name: "Dental amalgam pha	ase down nolicy"					
<b>Definition:</b> Existence of a national ora	I health policy, strateg	gy or action plan to phas	se down the use of de	ntal amalgam, in comp	liance with the Mi	inamata
Convention on Mercury.						
Preferred data source: At country lev	rel:					
- Government representative at MoH						
130. Relevance: Rate "Dental amalgam	phase down policy" in	terms of (*	Please choose the ap	propriate response for	each item)	
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ŏ	0		Ö	0	0
Relevance globally	Ŏ	Ŏ	8	Ŏ	Ŏ	ŏ
131. Feasibility for regular collection: Ra	ate "Dental amalgam r		_			
131. Teasibility for regular collection. No	ite Dentai amaigam p	mase down policy in te	(	r lease choose the app	Jopinate respons	e for each item)
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
	very reasible	Joine What readible	nor unfeasible	unfeasible	unfeasible	do not know
Foosibility in my country	0	0	O	O	O	O
Feasibility in my country						
132. Sensitivity to detect changes over t	ime (by 2030): Rate	Dentai amaigam phase (	down policy in terms	or (*Please	choose the appro	priate response i
each item)						
		Committee	National Control	Committee		N
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
Governance						
Indicator name: "Oral health integrati	ion into the school hea	alth policy/programme"				
<b>Definition:</b> Oral health interventions a	are integrated into the	school health policy/pr	ogramme. Type of sch	nool health intervention	ns related to oral	health include:
- Promotion of oral health	_					
- Screening of oral health problems, for	ollowed by care or refe	erral, as appropriate.				
Preferred data source: At country leve	•					
- Government representative at MoH		Oral health unit)				
- Ministry of Health routine administra	· ·	oral ricultif unity				
Related links: WHO guideline on scho		ence / /www.who int /nub	lications /i /itam /0790	240020202		
=						
WHO, UNESCO Making every school a			nd indicators for nealt	n-promoting schools ar	10	
systems: https://apps.who.int/iris/res				41-4		
133. Relevance: Rate "Oral health integ	ration into the school	health policy/programn	ne" in terms of	(*Please choose t	:he appropriate re	esponse for each
item)						
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ŏ	0	Ŏ	Ö	0	0
Relevance globally	Ŏ	ŏ	ŏ	Ŏ	Ŏ	ŏ
124 Enscibility for regular collection: Br					/*Dloaco che	

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

135. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "Oral health integration into the school health policy/programme" in terms of...... (\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
Governance: You have now finished resp	oonding to questions	concerning indicators	of <u>"Governance"</u> .		·	
Presence of dedicated staff for				al nolicy or legislation		

- Presence of dedicated staff for oral diseases in the NCD
   Department or other Department of the Ministry of Health
- Existence of a national oral health policy, strategy, or action plan
- Noma recognized as a national public health problem
- Implementation of tax on sugar-sweetened beverages (SSBs)
- National policies, strategies, or action plans with a specific policy goal or action towards reducing sugars intake
- National policy or legislation to contain all forms of tobacco consumption
- Water fluoridation
- Dental amalgam phase down policy
- Oral health integration into the school health policy/programme

136. Are there any indicators of "Governance" that were not included but that you believe should be? Please provide a name and brief rationale for inclusion below. Please write your answer here:

137. Do you have any other comments regarding the potential indicators listed above, that could assist to refine them further? For example, regarding the definitions, data sources, age groups, data disaggregation, etc. Please write your answer here:

Evidence-informed policy / Information systems

	Indicator name: "Oral health indicators in routine health information systems"
	Definition: Integration of oral health indicators into the existing national routine health information system (e.g., Health Management Information System (HMIS),
	The District Health Information Software (DHIS2), Integrated Disease Surveillance and Responses (IDSR))
	Preferred data source: At country level:
	Routine health information system
ı	Government representative at Ministry of Health (Chief dental officer/Oral health unit)

138. Relevance: Rate "oral health indicators in routine health information systems" in terms of ................. (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant nor irrelevant	Somewhat irrelevant	Completely irrelevant	No answer/ I do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	Ö	0	Ö	0	0	0
Relevance globally	0	0	0	0	0	0

139. Feasibility for regular collection: Rate "oral health indicators in routine health information systems" in terms of................................. (\*Please choose the appropriate response for each item)

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

140. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "oral health indicators in routine health information systems" in terms of...... (\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0

Evidence-informed policy / Information systems

Indicator name: "Collection of oral health data using WHO NCD survey tools or national oral health survey"

**Definition:** Collection of oral health data using WHO NCD survey tools (STEPS, NCD Country Capacity Surveys, Global School-based Student Health Survey(GSHS), etc.) or national oral health survey (using or not using digital technology).

Preferred data source: At country level:

- Government representative at MoH (Chief dental officer/Oral health unit)

141. Relevance: Rate "Collection of oral health data using WHO NCD survey tools or national oral health survey" in terms of ....... (\*Please choose the appropriate response for each item)

	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
			nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country	0	0	0	0	0	0
Relevance to my WHO region	0	0	0	0	0	0
Relevance globally	0	0	0	0	0	0

	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0

143. <u>Sensitivity to detect changes over time (by 2030):</u> Rate "Collection of oral health data using WHO NCD survey tools or national oral health survey" in terms of....... (\*Please choose the appropriate response for each item)

	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
		sensitive	nor insensitive	insensitive	insensitive	do not know
Sensitivity to change in my country	0	0	0	0	0	0
Evidence-informed policy / Information	systems					
Indicator name: "National Monitoring	Framework to track	oral health nolicy"				
<b>Definition:</b> Existence of a National Mo			implementation of the	national oral healt	h nolicy/strategy/nla	n (V/N) (Among
those countries that have an oral heal			implementation of the	: Hational Oral Healt	ii policy/strategy/pia	ii (1/14) (Aillong
Preferred data source: At country leve		action plann				
- Government representative at the M		of dontal officer/Oral ha	alth unit)			
144. <u>Relevance:</u> Rate "National Monitor				*Dloaco chaoco tha	annronriato rosnons	o for each item)
144. Kelevance. Kate Mational Monitor	ing Framework to tra	ck oral fleatili policy ili	terms or	Please choose the	appropriate respons	e ioi eacii iteiii)
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I
	very relevant	Joinewhat relevant	nor irrelevant	irrelevant	irrelevant	do not know
Relevance to my country		0		O	O	
· · ·	<u> </u>		O O		Ŏ	0
Relevance to my WHO region	0	0	8	0		Q
Relevance globally	O	0			0	
145. Feasibility for regular collection: Ra	ite "National Monitoi	ing Framework to track	oral health policy" in t	erms of	(*Please choose th	ie appropriate
response for each item)						
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I
			nor unfeasible	unfeasible	unfeasible	do not know
Feasibility in my country	0	0	0	0	0	0
146. Sensitivity to detect changes over	time (by 2030): Rate	"National Monitoring Fra	amework to track oral	health policy" in ter	rms of (*Pl	ease choose the
appropriate response for each item)					( )	
appropriate response for each term,						
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I
	very sensitive	sensitive	nor insensitive	insensitive	insensitive	do not know
Canada it to abanca in an accordan		1	O	_	O	O
Sensitivity to change in my country		0	<u> </u>			
Evidence-informed policy / Research an	d knowledge translat	ion				
Indicator name: "Percentage of gover	nment funds for oral	health research"				
<b>Definition:</b> Percentage of public funds	for research that is a	llocated for oral health-	related projects			
Preferred data source: At country lev						
•						
- National and sub-national governme						
Related links: Similar indicator in PHC			://apps.who.int/iris/b	itstream/handle/10	665/352201/978924	0044234-
<b>Related links:</b> Similar indicator in PHC eng.pdf?sequence=1&isAllowed=y	Monitoring Framewo	ork (indicator #13): https				
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Relevance to my WHO region	0	0	0	0	0	0		
Relevance globally	0	0	0	0	0	0		
151. Feasibility for regular collection: Ra	te "Setting oral heal	th research agendas orie	ented towards public h	ealth programmes a	and population-based	d interventions" in		
terms of (*Please choose t			·		• •			
(		,						
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I		
	very reasone	Somewhat reashble	nor unfeasible	unfeasible	unfeasible	do not know		
Facilities in any accorder.			O	O	unleasible			
Feasibility in my country	<u> </u>	"" "				O		
152. Sensitivity to detect changes over t				towards public hea	ith programmes and	population-based		
interventions" in terms of (*P	'lease choose the ap	propriate response for e	ach item)					
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I		
		sensitive	nor insensitive	insensitive	insensitive	do not know		
Sensitivity to change in my country	0	0	0	0	0	0		
Evidence-informed policy / Research an	d knowledge transla							
Evidence informed policy / nescuren un	a knowledge transla							
Indicator name: "Translation of resear	rch findings into poli	cy and practice "						
			andation of aral booth	rosoorah findinas i	nto proctice (V/N)			
<b>Definition:</b> National health research st		ance on mobilization/tra	ansiation of oral neartr	research findings if	ito practice (1/14)			
Preferred data source: At country leve								
- National and sub-national governme		•						
Related links: WHO SCORE for health	data technical packa	ge. Available from: <a href="https://h&lt;/td&gt;&lt;td&gt;s://www.who.int/data&lt;/td&gt;&lt;td&gt;data-collection-too&lt;/td&gt;&lt;td&gt;ls/score/documents&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;153. Relevance: Rate " of="" res<="" td="" translation=""><td>earch findings into p</td><td>olicy and practice " in te</td><td>rms of (*F</td><td>Please choose the ap</td><td>propriate response f</td><td>or each item)</td></a>	earch findings into p	olicy and practice " in te	rms of (*F	Please choose the ap	propriate response f	or each item)
				•		•		
	Very relevant	Somewhat relevant	Neither relevant	Somewhat	Completely	No answer/ I		
	,		nor irrelevant	irrelevant	irrelevant	do not know		
Relevance to my country	0	0	0	0	0	0		
			_		0			
Relevance to my WHO region	0	0	8	0	$\frac{\circ}{\circ}$			
Relevance globally	O	0						
154. Feasibility for regular collection: Ra	ite "Translation of re	search findings into poli	cy and practice" in teri	ms of (	(*Please choose the a	appropriate		
response for each item)								
	Very feasible	Somewhat feasible	Neither feasible	Somewhat	Completely	No answer/ I		
			nor unfeasible	unfeasible	unfeasible	do not know		
Feasibility in my country	0	0	0	0	0	0		
155. <u>Sensitivity to detect changes over t</u>	ime (hy 2030): Rate	"Translation of research		d nractice" in terms				
	iiiic (by 2030). Nate	Translation of research	illianigs into policy an	a practice in terms	O1 ( 1 1003	c choose the		
appropriate response for each item)								
		C leat	Nie tile e e e e e tit e e	C	C l . l . l	N1		
	Very sensitive	Somewhat	Neither sensitive	Somewhat	Completely	No answer/ I		
		sensitive	nor insensitive	insensitive	insensitive	do not know		
Sensitivity to change in my country	O		0	O	0	0		
Evidence-informed policy: You have now	v finished responding	g to questions concernin	g indicators of "Evider	nce-informed policy	<u>'</u> .			
		_			-			
<ul> <li>Oral health indicators in rout</li> </ul>	ine health informati	on systems	<ul> <li>Setting</li> </ul>	national oral health	h research agendas o	riented towards		
<ul> <li>Collection of oral health data</li> </ul>		=	_		and population-base			
	daing willo NCD au	ivey tools of			dings into policy and			
national oral health survey.			• iransia	ation of research fin	dings into policy and	practice		
<ul> <li>National Monitoring Framew</li> </ul>	ork to track national	l oral health						
policy.								
<ul> <li>Percentage of government full</li> </ul>	unds for oral health r	esearch						
· · · · · · · · · · · · · · · · · · ·								
156. Are there any indicators of "Eviden	so informed policy"	that word not included h	uit that you haliava ch	ould ha? Blazca pro	wide a name and bric	of rationals for		
•		that were not included t	out that you believe sh	ould be: Flease pro	vide a flaffie affu brie	i rationale foi		
inclusion below. Please write your answ	er nere:							
157. Do you have any other comments i	regarding the potent	ial indicators listed abov	e, that could assist to	refine them further?	? For example, regard	ling the definitions		
data sources, age groups, data disaggre	gation, etc. Please w	rite your answer here:						
☐ Submit your survey.								
_ Jasime your Jurvey.								
Thank you for completing this survey.								
mank you for completing this survey.								

# Appendix 3. Second round Delphi questionnaire.

China

Colombia

#### Selection of indicators to be included in the draft monitoring framework of the global oral health action plan There are 102 questions in this survey. **Background Information** 1. What is your gender/ how do you currently identify? \*Please choose only one of the following: Man Woman Prefer not to answer Prefer to self-describe 2. What is your age? \*Please choose only one of the following: Less than 40 years 40-54 years 55-70 years More than 70 years Prefer not to answer 3. Which country do you work in? \*Please choose only one of the following: Afghanistan Comoros Guyana Albania Congo Haiti Algeria Cook Islands Honduras Andorra Costa Rica Hungary Angola Côte d'Ivoire Iceland Antigua and Croatia India Barbuda Cuba Indonesia Iran (Islamic Republic of) Argentina Cyprus Armenia Czechia Iraq Australia Democratic People's Republic of Ireland Austria Israel Democratic Republic of the Congo Azerbaijan Italy Denmark Bahamas Jamaica Bahrain Djibouti Japan Dominica Bangladesh Jordan Dominican Republic **Barbados** Kazakhstan Belarus Ecuador Kenya Belgium Egypt Kiribati Belize El Salvador Kuwait Benin **Equatorial Guinea** Kyrgyzstan Eritrea Lao People's Democratic Republic **Bhutan** Bolivia (Plurinational State of) Estonia Latvia Bosnia and Herzegovina Eswatini Lebanon Botswana Ethiopia Lesotho Brazil Faroe Islands Liberia Brunei Darussalam Libya Bulgaria Finland Lithuania Burkina Faso France Luxembourg Burundi Gabon Madagascar Cabo Verde Gambia Malawi Cambodia Georgia Malaysia Cameroon Germany Maldives Canada Ghana Mali Central African Republic Greece Malta Chad Grenada Marshall Islands Chile Guatemala Mauritania

Guinea

Guinea-Bissau

Mauritius

Mexico

Micronesia (Federated States of)	Togo
Monaco	Tokelau
Mongolia	Tonga
Montenegro	Trinidad and Tobago
Morocco	Tunisia
Mozambique	Turkey
Myanmar	Turkmenistan
Namibia	Tuvalu
Nauru	Uganda
Nepal	Ukraine
Netherlands	United Arab Emirates
New Zealand	United Kingdom of Great Britain and
Nicaragua	Northern Ireland
Niger	United Republic of Tanzania
Nigeria	United States of America
Niue	Uruguay
North Macedonia	Uzbekistan
Norway	Vanuatu
Oman	Venezuela (Bolivarian Republic of)
Pakistan	Viet Nam
Palau	Yemen
Panama	Zambia
Papua New Guinea	Zimbabwe
Paraguay	
Peru	
Philippines	
Poland	
Portugal	
Puerto Rico	
Qatar	
Republic of Korea	
Republic of Moldova	
Romania	
Russian Federation	
Rwanda	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Samoa San Marino	
Sao Tome and Principe	
Saudi Arabia	
Senegal	
Serbia	
Seychelles	
Sierra Leone	
Singapore	
Slovakia	
Slovenia	
Solomon Islands	
Somalia	
South Africa	
South Sudan	
Spain	
Sri Lanka	
Sudan	
Suriname	
Sweden	
Switzerland	
Syrian Arab Republic	
Tajikistan	
Thailand	

☐ Timor-Leste

4. Which WHO region of the world do you work in? *Please choose only one of the following:	
☐ African Region	
☐ Eastern Mediterranean Region	
☐ European Region	
Region of the Americas	
South-East Asia Region  Weather Parising	
<ul><li>☐ Western Pacific Region</li><li>☐ Prefer not to answer</li></ul>	
Trefer not to answer	
5. Which of the following best describes the work role for which you were invited to participate in this project? *Please choose only one of t following:	he
☐ Chief Dental Officer or Senior advisor at the Ministry of Health	
□ WHO Collaborating Centre representative	
□ Academic or researcher	
□ WHO Staff	
□ Prefer not to answer	
Other-please state	
Key information for completing this survey, the 2nd round of the Delphi process	
In the 2 <sup>nd</sup> round of the Delphi process, we are going to ask you questions that are different from those posed in the 1 <sup>st</sup> round. The goal of the new questions is to be as discriminatory as possible. For each indicator, we will ask you:	ese
1. Would you be able to collect data on this indicator <u>in your country by the end of 2023</u> using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.)?	
Response options are: Yes/no/(I don't know/I am not in a position to answer this)	
2. This indicator should be:	
a) A core indicator (relevance at global level and collected in all countries)	
b) A complementary indicator (relevance at regional and national levels and collected in certain countries)	
c) I don't know	
Then at the end of a category or subcategory of indicators, we will ask you:	
1. Rank the order of indicators in this category according to their relevance in your country (From first to last, with "first" being the most relevant)	
2. Please provide any other comments regarding indicators in this category	
To help you in your responses to these questions, here are definitions of the relevant concepts:	
Core (Global) indicators: used for comparison between countries and assessment of progress at a global level. (NB: We need to have core indicators for each strategic objective of the draft Global Strategy on Oral Health).	
Complementary (regional/national) indicators: more specific indicators used for key policy areas within regions or for policy development at national level. (NB: If there is not a consensus on an indicator, and only relevant at national/regional level, it could be classified as complementary).	: a
Relevance: the degree to which the indicator contributes to measuring progress on the implementation of the draft Global Strategy on Oral Health and upcoming draft Global Oral Health Action Plan	
6. Please choose all that apply:	
□ proceed with the rest of the survey	
Oral health status indicators / DMFT	
Indicator name: "Mean DMFT"	

<b>Definition:</b> DMF1 is the sum of the number of Decayed, Missing due to caries, and Filled Teeth in the permanent teeth. The mean number of
DMFT is the sum of individual DMFT values divided by the sum of the population.
Preferred data source: At country level:
- Population-based surveys (Conducting a National oral health survey)
-Routine surveillance systems At global level:
- Compiled data by WHO Global Oral Health Data Bank (CAPP)
Related links: WHO Global Oral Health Data Bank (CAPP): https://capp.mau.se/
Global Health Observatory indicator: https://www.who.int/data/gho/indicator-metadata-registry/imr-details/3812
7. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(e.g., oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
data, etc.), could that be done: Flease choose only one of the following.
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
Tubil Chilowyl all Hot in a position to answer this
8. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
□ I don't know
- room cane
Oral health status indicators / Caries
Indicator name: "Prevalence of untreated caries of deciduous teeth in children "
<b>Definition:</b> Estimated prevalence of untreated caries of deciduous teeth in children: Rate of children who have caries in one or more
deciduous teeth. Untreated caries is defined as a lesion in a pit or fissure, on a smooth tooth surface, has an unmistakable cavity,
undermined enamel, or a detectably softened floor or wall (coronal caries), or feel soft or leathery to probing (root caries).
Preferred data source: At country level:
- Population-based surveys (Conducting a national oral health survey)
- Routine surveillance systems
At global level:
- Estimations by Global Burden of Disease 2019 database, Institute for Health Metrics and Evaluation
Related links: Global Burden of Disease 2019 estimation process is based on multiple relevant data sources, such as National Oral Health
Surveys. Link to Global Burden of Disease 2019 database: <a href="http://ghdx.healthdata.org/gbd-results-tool">http://ghdx.healthdata.org/gbd-results-tool</a>
The upcoming WHO Global Oral Health Status Report relies on the latest available GBD data from 2019.
9. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following: Yes
□ No
☐ I don't know/I am not in a position to answer this
10. This indicator should be: *Please choose only one of the following:
A care indicator (should be collected in all countries)
A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
☐ I don't know
One I have like about a find in about / Continu
Oral health status indicators / Caries
Indicator name: "Prevalence of untreated caries of permanent teeth"
<b>Definition:</b> Estimated prevalence of untreated caries of permanent teeth in people: Rate of persons with one more carious permanent
teeth. Untreated caries is defined as a lesion in a pit or fissure, on a smooth tooth surface, has an unmistakable cavity, undermined enamel,
or a detectably softened floor or wall (coronal caries), or feel soft or leathery to probing (root caries).
Preferred data source: At country level:
- Population-based surveys (Conducting a national oral health survey)
- Routine surveillance systems
At global level:
- Estimations by Global Burden of Disease 2019 database, Institute for Health Metrics and Evaluation
Related links: Global Burden of Disease 2019 estimation process is based on multiple relevant data sources, such as National Oral Health
Surveys. Link to Global Burden of Disease 2019 database: <a href="http://ghdx.healthdata.org/gbd-results-tool">http://ghdx.healthdata.org/gbd-results-tool</a>
The upcoming WHO Global Oral Health Status Report relies on the latest available GBD data from 2019.
Francisco Anno Grand Gr

11. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
12. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
☐ I don't know
Oral health status indicators / Missing teeth
Indicator name: "Missing teeth"
<b>Definition:</b> Missing teeth status refers to the number of missing teeth. Normally measured in permanent teeth in adult population and is
related to a fully dentate status of 28 teeth (excluding third molars).  Preferred data source:
At country level:
- Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)
Related links: WHO STEPS survey - Oral Health Module: https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-
tools/steps/instrument
13. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:
□ Yes
☐ I don't know/I am not in a position to answer this
14. This indicator should be: *Please choose only one of the following:
□ A core indicator (should be collected in all countries)
A complementary indicator (could be collected in certain countries)  A complementary indicator (could be collected in certain countries)
☐ I don't know
Oral health status indicators / Periodontal disease
Indicator name: "Prevalence of severe periodontal disease"
<b>Definition:</b> Estimated prevalence of severe periodontal disease in people: Rate of persons affected by severe periodontal disease, a chronic
inflammation of the soft and hard tissues that support and anchor the teeth.
Preferred data source: At country level:
- Population-based surveys (Conducting a national oral health survey)
- Routine surveillance systems
At global level: - Estimations by Global Burden of Disease 2019 database, Institute for Health Metrics and Evaluation
Related links: Global Burden of Disease 2019 estimates are based on multiple relevant data sources, such as National Oral Health Surveys.
Link to Global Burden of Disease 2019 database: http://ghdx.healthdata.org/gbd-results-tool
The upcoming WHO Global Oral Health Status Report relies on the latest available GBD data from 2019.
15. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
16. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
A complementary indicator (could be collected in certain countries)

Oral health status indicators / Lip and oral cavity cancer

Indicator name: "Incidence rate of oral cancer (lip and oral cavity cancer) (age-standardized rate per 100,000 population)"
<b>Definition:</b> Estimated incidence rate of lip and oral cavity cancer (age-standardized per 100,000 population): Incidence rates of lip and oral
cavity cancer in females, males, and total, among all ages as age-standardized per 100,000 population.
Preferred data source: At country level:
- Population-based cancer registries
At global level:
- Estimations by Globocan 2020 database, International Agency for Research on Oral Cancer
Related links: GLOBOCAN estimates use the available data on cancer incidence from population-based cancer registries. GLOBOCAN 2020
database: Available from: https://gco.iarc.fr/today
The upcoming WHO Global Oral Health Status Report relies on data from the International Agency for Research on Cancer (IARC).
17. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Va•
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
18. This indicator should be: *Please choose only one of the following:
16. This indicator should be. Please choose only one of the following.
☐ A core indicator (should be collected in all countries)
A complementary indicator (could be collected in certain countries)
☐ I don't know
a Tabil t know
Oral health status indicators / self-reported oral health status
Indicator name: "Self-reported oral health status"
Indicator name: "Self-reported oral health status"  Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or
<b>Definition:</b> Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).
<b>Definition:</b> Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-</a>
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a>
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected <a href="in-your country">in-your country</a> by the end of 2023 using the source that provides the most valid data nationally
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a>
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected <a href="in-your country">in-your country</a> by the end of 2023 using the source that provides the most valid data nationally
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Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes No
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes No
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected <a href="in-your country-by-the-end-of-2023">in-your country-by-the-end-of-2023</a> using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:    Yes
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes No I don't know/I am not in a position to answer this  20. This indicator should be: *Please choose only one of the following:  A core indicator (should be collected in all countries)
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes  No  I don't know/I am not in a position to answer this  20. This indicator should be: *Please choose only one of the following:  A core indicator (should be collected in all countries)  A complementary indicator (could be collected in certain countries)
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes No I don't know/I am not in a position to answer this  20. This indicator should be: *Please choose only one of the following:  A core indicator (should be collected in all countries)
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes  No  I don't know/I am not in a position to answer this  20. This indicator should be: *Please choose only one of the following:  A core indicator (should be collected in all countries)  A complementary indicator (could be collected in certain countries)
Definition: Self-reported oral health status, including pain or discomfort, difficulty in chewing food, days not at work because of teeth or mouth (e.g. question: "During the past 12 months, did your teeth or mouth cause any pain or discomfort?).  Preferred data source: At country level: Population-based surveys (Conducting the WHO STEPS Survey using the optional Oral Health Module)  Related links: WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument</a> 19. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:  Yes No I don't know/I am not in a position to answer this  20. This indicator should be: *Please choose only one of the following:  A core indicator (should be collected in all countries) A complementary indicator (could be collected in certain countries) I don't know

	First	Second	Third	Fourth	Fifth	Sixth	Seventh
Mean DMFT							
Prevalence of untreated caries of deciduous teeth in							
children							
Prevalence of untreated caries of permanent teeth							
Missing teeth							
Prevalence of severe periodontal disease							
Incidence rate of oral cancer (lip and oral cavity cancer)							
(age-standardized rate per 100,000 population)							
Self-reported oral health status							

22. Do you have any other comments regarding the potential indicators listed above, that could assist to refine them further? For example, regarding the definitions, data sources, age groups, data disaggregation, etc. Please write your answer here: Risk factor of oral health / Tobacco Indicator name: "Prevalence of current tobacco use among persons aged 15 years and older (age-standardized rate)" Definition: The percentage of the population aged 15 years and over who currently use any tobacco product (smoked and/or smokeless tobacco) on a daily or non-daily basis. Tobacco products include cigarettes, pipes, cigars, cigarillos, waterpipes (hookah, shisha), bidis, kretek, heated tobacco products, and all forms of smokeless (oral and nasal) tobacco. Tobacco products exclude e-cigarettes (which do not contain tobacco), "e-cigars", "e-hookahs", JUUL, and "e-pipes". Preferred data source: At country level: - Population based surveys (Conducting the WHO Global Adult Tobacco Survey or WHO STEPS survey) At global level: WHO Global Health Observatory 2019 database Related links: WHO Global Adult Tobacco Survey: https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/global-adulttobacco-survey WHO STEPS survey: https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps/instrument WHO Global Health Observatory indicator: https://www.who.int/data/gho/data/indicators/indicator-details/GHO/gho-tobacco-controlmonitor-current-tobaccouse-tobaccosmoking-cigarrettesmoking-agestd-tobagestdcurr 23. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? \*Please choose only one of the following: Yes No I don't know/I am not in a position to answer this 24, This indicator should be: \*Please choose only one of the following: A core indicator (should be collected in all countries) A complementary indicator (could be collected in certain countries) I don't know Risk factor of oral health / Betel quid/areca nut Indicator name: "Prevalence of current betel quid use among persons aged 15 years and older" Definition: Prevalence of current betel quid use among persons aged 15 years and older (%): The percentage of the population aged 15 years and over who currently chew BQ at least 3 days a week. Preferred data source: At country level: Population-based surveys Related links: A future source of information on the field: https://www.iarc.who.int/news-events/iarc-handbooks-meetings-volume-19oral-cancer-prevention/ 25. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? \*Please choose only one of the following: Yes No I don't know/I am not in a position to answer this 26. This indicator should be: \*Please choose only one of the following: A core indicator (should be collected in all countries) A complementary indicator (could be collected in certain countries) I don't know Risk factor of oral health / Harmful use of alcohol Indicator name: "Per capita total alcohol consumption, 15+ years (liters of pure alcohol per year)'

Definition: The total alcohol per capita consumption comprises both, the recorded and the unrecorded alcohol per capita consumption.

Preferred data source: At country level:

WHO Global Health Observatory 2019 database

Government statistics At global level:

<u>unrecorded)-alcohol-per-capita-(15-)-consumption</u>
27. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
data, etc., could that be done: Thease choose only one of the following.
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
28. This indicator should be: *Please choose only one of the following:
and the material should be. The second only one of the following.
☐ A core indicator (should be collected in all countries)
A complementary indicator (could be collected in certain countries)
□ I don't know
Risk factor of oral health / Diet (including sugar)
Indicator name: "Per capita availability of sugar (grams/day)"
<b>Definition:</b> Availability (i.e., supply) of sugar in grams per capita.
Preferred data source: At global level:
Institute of Health Metrics and Evaluation and United Nations Food and Agriculture Organization, 2013.
29. If we asked for this indicator to be collected <u>in your country by the end of 2023</u> using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
30. This indicator should be: *Please choose only one of the following:
A core indicator (should be collected in all countries)
<ul> <li>A complementary indicator (could be collected in certain countries)</li> </ul>
□ I don't know
Risk factor of oral health / Diet (including sugar)
Indicator name: "Per capita consumption of sugar (kilogram/year)"
Definition: Per capita consumption of sugar (kilogram/year)
Preferred data source: At global level:
Organization for Economic Co-operation Development (OECD) and the Food and Agricultural Organization (FAO) of the United Nations.
Related links: The OECD-FAO Agricultural Outlook 2021-2030:
https://www.oecd-ilibrary.org/agriculture-and-food/oecd-fao-agricultural-outlook-2021-2030_19428846-
en; jsessionid=AP81UPEUSBnElJxPVnLRg2 C.ip-10-240-5-69
31. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
data, etc., could that be done. Thease choose only one of the following.
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
32. This indicator should be: *Please choose only one of the following:
D. A. and Saltanta (Alice Halling and Santha
□ A core indicator (should be collected in all countries)
□ A complementary indicator (could be collected in certain countries)
□ I don't know
Risk factor of oral health / Oral hygiene and fluoride
Indicator name: "Population using fluoride toothpaste on a daily basis"
mulator name. Population using nuorine touripaste on a uany basis

Related links: WHO Global Health Observatory: https://www.who.int/data/gho/data/indicators/indicator-details/GHO/total-(recorded-indicators/indicator-details/GHO/total-(recorded-indica

Preferred data source: At country level:				
Population-based surveys (Conducting the WHO STEPS Survey using Oral Health I	√odule & Wh	IO Global School-	based Student	Health
Survey)				
Related links:			. /	
WHO STEPS survey - Oral Health Module: <a href="https://www.who.int/teams/noncomm">https://www.who.int/teams/noncomm</a>	iunicable-dise	eases/surveillance	e/systems-	
tools/steps/instrument WHO Global School-based Student Health Survey: Questionnaire available from:	https://www.	who int/teams/r	oncommunical	nle-
diseases/surveillance/systems-tools/global-school-based-student-health-survey/			ioricommunicai	<u> </u>
33. If we asked for this indicator to be collected in your country by the end of 2023			s the most valid	l data nationally
(eg. oral health survey, relevant government ministry sources, health system inforr				
data, etc.), could that be done? *Please choose only one of the following:	,	ie sui veinunce s <sub>j</sub>		
□ Yes				
□ No				
☐ I don't know/I am not in a position to answer this				
·				
34. This indicator should be: *Please choose only one of the following:				
☐ A core indicator (should be collected in all countries)				
☐ A complementary indicator (could be collected in certain countries)				
☐ I don't know				
Risk factor of oral health				
35.Rank the indicators in the "risk factor of oral health" category according to their	ralavanca in	your country (1 -	the most relev	ant and the
higher the number the less relevant the indicator is). *Please choose the appropria		<del></del>	· the most relev	rant and the
mg. or the number the restricted the material sp. Trease should the appropria	се георопое .	o. cao		
	First	Second	Third	Fourth
Prevalence of current tobacco use among persons aged 15 years and older				
Prevalence of current betel quid use among persons aged 15 years and older				
Per capita total alcohol consumption, 15+ years (liters of pure alcohol per year)				
Per capita availability of sugar				
Per capita consumption of sugar				
Population using fluoridated toothpaste on a daily basis				
36. Please provide any other comments regarding indicators in the <u>"risk factor of o</u>	<u>ral health" </u> ca	tegory. Please wi	rite your answe	r here:
IIIIC for eval health / Comics and nanulation coverses				
UHC for oral health / Service and population coverage				
Indicator name: "Inclusion of oral health interventions in public Health Benefit Pa	ckages"			
<b>Definition:</b> The extent to which oral health interventions are included in the large		nt health financir	ng scheme. The	term
"largest" is defined as having the highest total population eligible to receive servi	_		_	
any public sector scheme for health service provision, including coverage for grou	ips such as th	e general popula	tion, public sec	tor employees
and/or the military.				
Preferred data source: At country level:				
- Government representative at Ministry of Health (Responding to Health Techno	logy Assessm	ent and Benefit F	Package Survey	conducted by
WHO)	2024	<b>5</b> 1:		
Related links: WHO Health Technology Assessment and Health Benefit Package S				
Dashboard: <a href="https://www.who.int/teams/health-systems-governance-and-financi-benefit-package-design/survey-homepage">https://www.who.int/teams/health-systems-governance-and-financi-benefit-package-design/survey-homepage</a>	ng/economic	-analysis/nealth-	technology-assi	essment-and-
37. If we asked for this indicator to be collected in your country by the end of 2023	using the so	irce that provide	s the most valid	l data nationally
(eg. oral health survey, relevant government ministry sources, health system inforr	_	•		-
data, etc.), could that be done? *Please choose only one of the following:	nation, routi	ie sui veillarice sy	sterris, routine	administrative
□ Voc				
□ Yes □ No				
, ,				
38. This indicator should be: *Please choose only one of the following:				
☐ A core indicator (should be collected in all countries)				
☐ A complementary indicator (could be collected in certain countries)				

UHC for oral health / Service and population coverage

☐ I don't know

Fifth

Sixth

Indicator name: "Availability of oral health care services in primary care facilities of the public health sector"
<b>Definition:</b> Availability of procedures for detecting, managing, and treating oral diseases in primary care facilities of the public health sector:
Generally available refers to reaching 50% or more patients in need whereas generally not available refers to reaching less than 50% of
patients in need.
It includes:
- availability of oral health screening for early detection of oral diseases
- availability of urgent treatment for providing emergency oral care and pain relief
- availability of basic restorative dental procedures to treat existing dental decay
Preferred data source: At country level:
Government representative at Ministry of Health (Responding to WHO NCD Country Capacity Survey)
Related links: WHO NCD Country Capacity Survey: https://www.who.int/teams/ncds/surveillance/monitoring-capacity/ncdccs
39. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
40. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
□ I don't know
a radii kilow
UHC for oral health / Service and population coverage
one of the first section population control age
Indicator name: "Proportion of the population who visited an oral health care professional"
<b>Definition:</b> Proportion of the population who visited an oral health care professional within a certain period of time (eg question: "Did you
consult with an oral health professional during the past year?").
Preferred data source: At country level:
Population-based survey
Related links:
The WHO STEPS survey-Oral Health Module: <a href="https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-">https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-</a>
tools/steps/instrument
41. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
42. This indicator should be: *Please choose only one of the following:
,
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
☐ I don't know
IIIIC for and health / Consider and negulation coverage
UHC for oral health / Service and population coverage
Indicates names "Drouglance of unmeteral health needs (and records for unmet needs)"
Indicator name: "Prevalence of unmet oral health needs (and reasons for unmet needs)"
<b>Definition:</b> Proportion of the population unable to obtain oral health care when they perceive the need (e.g. question "during the past year,
have you had the need for oral health care but not been able to obtain it?"). Reasons for unmet oral health needs would include financial
(too expensive), transportation/geographic (too far to travel), or timeliness (long waiting lists) reasons.
Preferred data source: At country level:
Population-based survey
Related links: OECD Unmet needs for oral health care:
https://www.oecd.org/health/health-systems/Unmet-Needs-for-Health-Care-Brief-2020.pdf
43. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
, " "

□ Yes

	No I don't know/I am not in a position to answer this				
44. This in	dicator should be: *Please choose only one of the following:				
	A core indicator (should be collected in all countries)				
	A complementary indicator (could be collected in certain countries)				
	I don't know				
UHC for o	ral health / Service and population coverage				
45. Rank t	the indicators in the "UHC for oral health" category (subcategory: service and pop	ulation cov	<u>erage)</u> accor	ding to <u>their</u>	relevance in
your coun	$\underline{\mathrm{try}}$ (1 = the most relevant and the higher the number the less relevant the indica	tor is).*Plea	ise choose th	e appropriat	e response for
each item	:				
		First	Second	Third	Fourth
Inclusion	n of oral health interventions in public Health Benefit Packages	FIISt	Second	IIIIIu	Fourth
	lity of oral health care services in primary care facilities of the public health				
sector	inty of oral health care services in primary care facilities of the public health				
	on of the population who visited an oral health care professional				
	nce of unmet oral health needs (and reasons for unmet needs)				
46. Please	provide any other comments regarding indicators in the "UHC for oral health" ca	ategory (sul	category: Se	rvice and po	pulation). Please
write you	r answer here:				
UHC for o	ral health / Financing/Financial protection				
Indicate	or name: "Per capita expenditure on oral health care (US\$)"				
	on: Estimate of the annual national per capita expenditure on oral health care for	outnationt	oral hoalth	aro (nublic a	nd privata)
	ed data source: At country level:	outpatient	Oral Health C	are (public a	na privatej.
	I Health Accounts				
At globa					
Global F	lealth Expenditure Database				
Related	links: WHO Global Health Expenditure Database. Available from: https://apps.wl	ho.int/nha/	<u>database</u>		
47. If we a	asked for this indicator to be collected <u>in your country</u> by the end of 2023 using the	ne source th	nat provides t	he most vali	d data nationally
(eg. oral h	ealth survey, relevant government ministry sources, health system information,	routine surv	eillance syst	ems, routine	administrative
data, etc.)	, could that be done? *Please choose only one of the following:				
	Vaa				
	Yes				
	No				
	I don't know/I am not in a position to answer this				
48. This in	dicator should be: *Please choose only one of the following:				
	A core indicator (should be collected in all countries)				
	A complementary indicator (could be collected in certain countries)				
	I don't know				
UHC for o	ral health / Financing/Financial protection				
	r name: "Government per capita expenditure on oral health, US\$ per capita"				
	on: Domestic general government expenditure per capita on oral health care				
	ed data source: At country level:				
	l Health Accounts				
At globa	Health Expenditure Database				
	links: WHO Global Health Expenditure Database. Available from: https://apps.wl	ho.int/nha/	database		
	asked for this indicator to be collected in your country by the end of 2023 using the			he most vali	d data nationally
	lealth survey, relevant government ministry sources, health system information,		•		
	, could that be done? *Please choose only one of the following:	561		-, 3	
	Yes				
	No				
Ш	I don't know/I am not in a position to answer this				

50. This indicator should be: \*Please choose only one of the following:

☐ A core indicator (should be collected in all countries)				
<ul> <li>A complementary indicator (could be collected in cert</li> </ul>	ain countries)			
☐ I don't know				
UHC for oral health / Financing/Financial protection				
Indicator name: "Out-of-pocket payment for oral health service	es, US\$ per cap	ita"		
<b>Definition:</b> Out of pocket payments for oral health services are	any direct pay	ments made by a hou	sehold at the poin	t of using any oral
health service.				
Preferred data source: At country level:				
- Household survey  Related links: WHO Global Health Expenditure Database (priva:	to hoalth ovnor	odituro). Available fre	m: https://apps.w	ho int/nha/datahasa
OECD.Stat Database: https://stats.oecd.org/	te nearth exper	iditule). Available 110	лп. <u>пшрз.//аррз.w</u>	no.mr/ma/database
51. If we asked for this indicator to be collected in your country be	by the end of 20	)23 using the source	that provides the n	nost valid data nationally
(eg. oral health survey, relevant government ministry sources, he			· · · · · ·	-
data, etc.), could that be done? *Please choose only one of the fo	ollowing:			
□ Yes				
□ No				
☐ I don't know/I am not in a position to answer this				
52. This indicator should be: *Please choose only one of the follows:	owing:			
☐ A core indicator (should be collected in all countries)				
<ul> <li>A complementary indicator (could be collected in cert</li> </ul>	ain countries)			
☐ I don't know				
UHC for oral health / Financing/Financial protection				
Indicator name: "Percentage of the population facing financial	barriers to ora	health care"		
<b>Definition:</b> Percentage of the population who do not receive or				
Preferred data source: At country level:				
- Household survey				
Related links: OECD Unmet needs for oral health care:				
https://www.oecd.org/health/health-systems/Unmet-Needs-fo	or-Health-Care-	<u>Briet-2020.pdf</u>		
WHO EURO Universal health coverage: financial protection: https://www.euro.who.int/en/health-topics/Health-systems/he	ealth-systems-	inancing/universal-h	ealth-coverage-fin	ancial-protection
53. If we asked for this indicator to be collected in your country by				
(eg. oral health survey, relevant government ministry sources, he			· · · · · ·	-
data, etc.), could that be done? *Please choose only one of the fo	-	,	, ,	
□ Yes				
□ No				
☐ I don't know/I am not in a position to answer this				
54. This indicator should be: *Please choose only one of the follows:	owing:			
☐ A core indicator (should be collected in all countries)				
☐ A complementary indicator (could be collected in cert	ain countries)			
☐ I don't know				
UHC for oral health / Financing/Financial protection				
TE Dankaha indianana indiana indianana indianana indianana indianana indiana			utia a \ a	thata and a const
55. Rank the indicators in the "UHC for oral health" category (sub				
<u>country</u> (1 = the most relevant and the higher the number the les item:	ss relevant the	indicator is). Please	choose the approp	oriate response for each
	First	Second	Third	Fourth
Per capita expenditure on oral health	•	, <b>v</b>		
Government per capita expenditure on oral health				
Out-of-pocket payment for oral health services, US\$ per				
capita				
Percentage of the population facing financial barriers to oral				

health care

56. Please provide any other comments regarding indicators in the "UHC for oral health" category (subcategory: financing/financial protection). Please write your answer here: UHC for oral health / Medicines, equipment, devices, digital technology, and other health products Indicator name: "WHO EMLs dental preparations are listed in the national EML (or similar)" Definition: The extent to which dental preparations on the WHO Essential Medicines List and WHO Essential Medicines List for children are listed in the national Essential Medicines List (or similar). Responses can be disaggregated by dental preparation (fluoride, glass ionomer cement, and silver diamine fluoride) and/or the amount of dental preparations (1,2 or all). Preferred data source: At country level: - Government representative at Ministry of Health (Chief dental officer/Oral health unit responding to a questionnaire to be conducted by WHO) Related links: WHO Model List of Essential Medicines - 22nd List, 2021: https://apps.who.int/iris/bitstream/handle/10665/345533/WHO-MHP-HPS-EML-2021.02-eng.pdf 57. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? \*Please choose only one of the following: Yes No I don't know/I am not in a position to answer this 58. This indicator should be: \*Please choose only one of the following: A core indicator (should be collected in all countries) A complementary indicator (could be collected in certain countries) I don't know UHC for oral health / Medicines, equipment, devices, digital technology, and other health products Indicator name: "Affordability of fluoride toothpaste" Definition: Fluoride toothpaste is categorized as "affordable" if less than one day (≤ 1) of labour is needed and as "unaffordable" if more than one day (>1) of labour is needed to buy the annual supply for one individual. Preferred data source: At country level: - Government representative at Ministry of Health (Chief dental officer/Oral health unit responding to a questionnaire to be conducted by WHO) At global level: - WHO Consultation 2019 59. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? \*Please choose only one of the following: Yes No I don't know/I am not in a position to answer this 60. This indicator should be: \*Please choose only one of the following: A core indicator (should be collected in all countries) A complementary indicator (could be collected in certain countries) I don't know UHC for oral health / Medicines, equipment, devices, digital technology, and other health products 61. Rank the indicators in the "UHC for oral health" category (Subcategory: Medicines, equipment, devices, digital technology, and other health products) according to their relevance in your country (1 = the most relevant and the higher the number the less relevant the indicator is).\*Please choose the appropriate response for each item:

Affordability of fluoride toothpaste

62. Please provide any other comments regarding indicators in the "UHC for oral health" category (subcategory: medicines, equipment, devices, digital technology, and other health products). Please write your answer here:

UHC for oral health / Workforce

Indicator name: "Oral health personnel (per 10,000 population)"
<b>Definition:</b> Total oral health personnel density, per 10,000 population: 1) dentists; 2) dental assistants and therapists, dental hygienists, and
dental nurses; and 3) dental prosthetic technicians.
Preferred data source: At country level - Health workforce registry or database
At global level:
- The National Health Workforce Accounts data portal
Related links: National Health Workforce Accounts Data Portal: https://apps.who.int/nhwaportal/
63. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Vec
□ Yes □ No
☐ I don't know/I am not in a position to answer this
Tuon t know) tam not in a position to answer this
64. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
□ I don't know
UHC for oral health / Workforce
Indicator name: "Primary healthcare workers (inc. community healthcare workers) are trained to perform cost-effective interventions on
oral health"  Definition: Proportion of primary healthcare workers (inc. community healthcare workers) are trained to perform cost-effective
interventions on oral health. Primary healthcare workers exclude oral health care personnel (dentists, dental assistants, therapists, dental
hygienists, dental nurses, and dental prosthetic technicians). Cost-effective interventions on oral health (Best buys) are currently under
development.
Preferred data source: At country level:
Non-dental health professional training institutions
65. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
66. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
□ I don't know
UHC for oral health / Workforce
Indicator name: "Annual graduates of oral health personnel, all cadres (per 10,000 population)"
<b>Definition:</b> Density of annual graduates of oral health personnel during the last year per 10,000 population. Recent graduates for the
following professions: 1) dentists; 2) dental assistants and therapists; dental hygienists; and dental nurses; and 3) dental prosthetic
technicians.
Preferred data source: At country level:
- Routine administrative data from Dental Faculties, training institutes
At global level: - National Health Workforce Accounts data platform (Data for dentists)
67. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No

☐ I don't know/I am not in a position to answer this			
68. This indicator should be: *Please choose only one of the following:			
<ul> <li>A core indicator (should be collected in all countries)</li> <li>A complementary indicator (could be collected in certain countries)</li> <li>I don't know</li> </ul>			
UHC for oral health / Workforce			
69.Rank the indicators in the "UHC for oral health" category (subcategory: workfor relevant and the higher the number the less relevant the indicator is).*Please choose the control of th			
	First	Second	Third
Oral health personnel (per 10,000 population)		0000114	
Primary healthcare workers are trained to perform cost-effective interventions on oral health			
Annual graduates of oral health personnel, all cadres (per 10,000 population			
70. Please provide any other comments regarding indicators in the "UHC for oral h	ealth" categor	v (subcategory: Wor	kforce).Please write your
answer here:		, ,	,,,,,,,,,
Governance			
Indicator name: "Presence of dedicated staff for oral diseases in the NCD Depart	ment or other	Department of the I	Ministry of Health"
<b>Definition:</b> Presence of a technical/professional staff in the unit/branch/departm	ent working o	n NCDs or another d	lepartment in the
Ministry of Health dedicating a significant portion of their time to oral diseases.	· ·		
Preferred data source: At country level:			
Government representative at Ministry of Health (Responding to WHO NCD Cour	ntry Capacity S	iurvey)	
Related links: WHO NCD Country Capacity Survey: https://www.who.int/teams/i	ncds/surveillar	nce/monitoring-capa	city/ncdccs
71. If we asked for this indicator to be collected in your country by the end of 2023	using the sou	rce that provides the	e most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system inform	nation, routin	e surveillance system	ns, routine administrative
data, etc.), could that be done? *Please choose only one of the following:			
□ Yes			
$\square$ No			
☐ I don't know/I am not in a position to answer this			
72. This indicator should be: *Please choose only one of the following:			
☐ A core indicator (should be collected in all countries)			
☐ A complementary indicator (could be collected in certain countries)			
☐ I don't know			
Courses			
Governance			
Indicator name: "Existence of a national oral health policy, strategy, or action pla			
<b>Definition:</b> Existence of a policy, strategy, or action plan for oral health available	in the respect	ive country.	
Preferred data source: At country level:	. t Caa.:t C		
Government representative at Ministry of Health (Responding to WHO NCD Cour		• • • • • • • • • • • • • • • • • • • •	a:b/
Related links: WHO NCD Country Capacity Survey: https://www.who.int/teams/i			
73. If we asked for this indicator to be collected in your country by the end of 2023			
(eg. oral health survey, relevant government ministry sources, health system informata, etc.), could that be done? *Please choose only one of the following:	nation, routin	e surveillance system	ns, routine auministrative
data, etc.), could that be done? "Please choose only one of the following:			
□ Yes			
□ No			
☐ I don't know/I am not in a position to answer this			
74. This indicator should be: *Please choose only one of the following:			
☐ A core indicator (should be collected in all countries)			
☐ A complementary indicator (could be collected in certain countries)			
□ I don't know			

Governance

Indicator name: "Noma recognized as a national public health problem"
<b>Definition:</b> Noma (cancrum oris) is a non-communicable necrotizing disease that starts as a lesion of the gums inside the mouth and
destroys the soft and hard tissues of the mouth and face. Countries are part of the Regional Noma Control Programme in the WHO African
Region and recognize noma as a national public health problem. Indicator being considered as complementary (at regional level)
Preferred data source: At regional level:
Regional Noma Control Programme in WHO African Region
75. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nation
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
76. This indicator should be: *Please choose only one of the following:
70. This indicator should be. Thease choose only one of the following.
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
☐ I don't know
Governance
Governance
Indicator name: "Implementation of tax on sugar-sweetened beverages (SSBs)"
<b>Definition:</b> Country has implemented a tax on sugar-sweetened beverages. "Yes" responses refer to the application of excise taxes and/or
special VAT/sales tax rates.
Preferred data source: At country level:
Government representative at Ministry of Health (Responding to WHO NCD Country Capacity Survey)
Related links: WHO NCD Country Capacity Survey: <a href="https://www.who.int/teams/ncds/surveillance/monitoring-capacity/ncdccs">https://www.who.int/teams/ncds/surveillance/monitoring-capacity/ncdccs</a>
77. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nation
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
78. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
☐ I don't know
Governance
Indicator name: "National policies, strategies, or action plans with a specific policy goal or action towards reducing sugars intolor."
Indicator name: "National policies, strategies, or action plans with a specific policy goal or action towards reducing sugars intake"  Definition: Existence of a national policy, strategy, or action plan with a specific goal or action towards reducing sugars intake. Specific goal
or action could refer to measures such as:
•Taxes: Sugar-sweetened beverages taxes, taxes on sugars or on foods high in sugars
•Nutrition labeling: Front-of-pack or other interpretative labeling/claim to indicate healthier food choices related to sugars
•Reformulation limits or targets to reduce sugars content in foods and beverages
Public food procurement and service policies to reduce the offer of food high in sugars
•Restriction of marketing of food and non-alcoholic beverages high in sugars to children
Preferred data source: At country level:
Government representative at Ministry of Health (Responding to WHO NCD Country Capacity Survey)
At global level:
WHO Global database on the implementation of nutrition action (GINA)
Related links: WHO NCD Country Capacity Survey: <a href="https://www.who.int/teams/ncds/surveillance/monitoring-capacity/ncdccs">https://www.who.int/teams/ncds/surveillance/monitoring-capacity/ncdccs</a>
79. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nation
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administration
data, etc.), could that be done? *Please choose only one of the following:
□ Voc
□ Yes
<ul> <li>□ No</li> <li>□ I don't know/I am not in a position to answer this</li> </ul>
ייי די מסוד באווסיאין דמווד ווטבווד מי ביייטווטוד גט מוויסיאיבו בווויס

80. This indicator should be: "Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
□ A complementary indicator (could be collected in certain countries)
□ I don't know
Governance
Indicator name: "National policy or legislation to contain all forms of tobacco consumption"
<b>Definition:</b> State Parties to WHO Framework Convention on Tobacco Control (FCTC) with a complete policy on all forms of tobacco taxation. Specific measures for smokeless tobacco include 1) tax or report taxing smokeless tobacco products, 2) measure contents of smokeless tobacco products, 3) pictorial health warnings on smokeless tobacco products, 4) ban on smokeless tobacco advertisement, promotion, and
sponsorships.  Preferred data source: At country level:
Country profile in the MPOWER
At global level:
FCTC EMPOWER report
Related links: FCTC EMPOWER report: <a href="https://apps.who.int/iris/rest/bitstreams/1359088/retrieve">https://apps.who.int/iris/rest/bitstreams/1359088/retrieve</a> 81. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data national
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
82. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
☐ A complementary indicator (could be collected in certain countries)
☐ I don't know
Governance
Governance
Indicator name: "Water fluoridation"
<b>Definition:</b> Proportion of the population exposed to water fluoridation interventions
Preferred data source: At country level: - Government databases
- Government representative at Ministry of Health
83. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data national
$(eg.\ oral\ health\ survey,\ relevant\ government\ ministry\ sources,\ health\ system\ information,\ routine\ surveillance\ systems,\ routine\ administrative$
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
84. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
A complementary indicator (could be collected in certain countries)
☐ I don't know
Caucymanes
Governance
Indicator name: "Dental amalgam phase down policy"
<b>Definition:</b> Existence of a national oral health policy, strategy or action plan to phase down the use of dental amalgam, in compliance with
the Minamata Convention on Mercury.  Preferred data source: At country level:
- Government representative at MoH (Chief dental officer/Oral health unit)
85. If we asked for this indicator to be collected <u>in your country</u> by the end of 2023 using the source that provides the most valid data national
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
···

	No										
	I don't know/I am not in a position to answe	er this									
86. This i	ndicator should be: *Please choose only one of	of the fol	lowing:								
	A core indicator (should be collected in all countries)										
	□ A complementary indicator (could be collected in certain countries)										
	I don't know										
Governar	nce										
Indicate	or name: "Oral health integration into the sch	ool healt	h policy/pro	gramme	ıı						
	ion: Oral health interventions are integrated in	nto the so	chool health	policy/p	rogramme	. Type of	school he	alth interve	ntions rela	ated to	
	alth include:										
	otion of oral health ning of oral health problems, followed by care	or referr	al as annro	nriate							
	ed data source: At country level:	OI TEIEIT	ai, as appio	priate.							
	nment representative at MoH (Chief dental of	ficer/Ora	al health uni	t)							
- Minist	try of Health routine administrative data			_							
Related links: WHO guideline on school health services: <a href="https://www.who.int/publications/i/item/9789240029392">https://www.who.int/publications/i/item/9789240029392</a>											
	JNESCO Making every school a health-promot	_	_	indards a	nd indicato	ors for hea	alth-prom	oting schoo	ols and		
	s: https://apps.who.int/iris/rest/bitstreams/13			of 2022 i	icing the co	urco that	providos	the most w	alid data n	ationally	
	asked for this indicator to be collected in your health survey, relevant government ministry s										
	.), could that be done? *Please choose only on		-	11 111101111	ation, routi	ile sui vei	narice sys	items, routh	ic admini.	Strative	
,	,,,										
	Yes										
	No										
	I don't know/I am not in a position to answe	er this									
88. This i	ndicator should be: *Please choose only one o	of the fol	lowing:								
	A core indicator (should be collected in all co	ountries)									
☐ A complementary indicator (could be collected in certain countries)											
□ I don't know											
Governar	nce										
89. Rank	the indicators in the "governance" category a	ccording	to their rele	vance in	vour count	rv (1 = th	e most re	levant and	the higher	the	
	the less relevant the indicator is).*Please choo										
		First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Ninth	
	ce of dedicated staff for oral diseases in the										
	epartment or other Department of the y of Health										
	ce of a national oral health policy, strategy,										
or actio											
	ecognized as a national public health										
probler											

	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Ninth
Presence of dedicated staff for oral diseases in the NCD Department or other Department of the Ministry of Health									
Existence of a national oral health policy, strategy, or action plan									
Noma recognized as a national public health problem									
Implementation of tax on sugar-sweetened beverages (SSBs)									
National policies, strategies, or action plans with a specific policy goal or action towards reducing sugars intake									
National policy or legislation to contain all forms of tobacco consumption									
Water fluoridation									
Dental amalgam phase down policy									
Oral health integration into the school health									
policy/programme									

90. Please provide any other comments regarding indicators in the "governance" category. Please write your answer here:

Evidence-informed policy / Information systems

Indicator name: "Oral health indicators in routine health information systems"

<b>Definition:</b> Integration of oral health indicators into the existing national routine health information system (e.g., Health Management Information System (HMIS), The District Health Information Software (DHIS2), Integrated Disease Surveillance and Responses (IDSR))
Preferred data source: At country level:
- Routine health information system
- Government representative at Ministry of Health (Chief dental officer/Oral health unit)
91 If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally (eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative data, etc.), could that be done? *Please choose only one of the following:
, ,
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
92. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
A complementary indicator (could be collected in certain countries)
☐ I don't know
Evidence-informed policy / Information systems
Indicator name: "Collection of oral health data using WHO NCD survey tools or national oral health survey"
<b>Definition:</b> Collection of oral health data using WHO NCD survey tools (STEPS, NCD Country Capacity Surveys, Global School-based Student Health Survey(GSHS), etc.) or national oral health survey (using or not using digital technology).
Preferred data source: At country level:
- Government representative at MoH (Chief dental officer/Oral health unit)
93 If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
☐ I don't know/I am not in a position to answer this
94. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
A complementary indicator (could be collected in certain countries)
☐ I don't know
Evidence-informed policy / Information systems
Indicator name: "National Monitoring Framework to track oral health policy"
<b>Definition:</b> Existence of a National Monitoring Framework to track the progress of implementation of the national oral health
policy/strategy/plan (Y/N) (Among those countries that have an oral health policy, strategy, or action plan).  Preferred data source: At country level:
- Government representative at the Ministry of Health (Chief dental officer/Oral health unit)
95. If we asked for this indicator to be collected in your country by the end of 2023 using the source that provides the most valid data nationally
(eg. oral health survey, relevant government ministry sources, health system information, routine surveillance systems, routine administrative
data, etc.), could that be done? *Please choose only one of the following:
□ Yes
□ No
☐ I don't know/I am not in a position to answer this
96. This indicator should be: *Please choose only one of the following:
☐ A core indicator (should be collected in all countries)
<ul> <li>A complementary indicator (could be collected in certain countries)</li> <li>I don't know</li> </ul>
Evidence-informed policy / Research and knowledge translation

Indicator name: "Percentage of government funds for oral health research"

Definition, Descentage of public funds for receased that is allocated for oval booth, related avoings										
Definition: Percentage of public funds for research that is allocated for oral health-related projects.										
Preferred data source: At country level:										
- National and sub-national government health research agencies										
Related links: Similar indicator in PHC Monitoring Framework (indicator										
#13): https://apps.who.int/iris/bitstream/handle/10665/352201/9789240044234-eng.pdf?sequence=1&isAllowed=y										
97. If we asked for this indicator to be collected in your country by the end of it		-			-					
(eg. oral health survey, relevant government ministry sources, health system in	normation,	routine surveilla	ance system	is, routine adi	ninistrative					
data, etc.), could that be done? *Please choose only one of the following:										
□ Voc										
□ Yes										
□ No										
☐ I don't know/I am not in a position to answer this										
98. This indicator should be: *Please choose only one of the following:										
, C										
☐ A core indicator (should be collected in all countries)										
<ul> <li>A complementary indicator (could be collected in certain countries)</li> </ul>	)									
☐ I don't know										
Full and informed reliev / Descript and Impulation										
Evidence-informed policy / Research and knowledge translation										
Indicator name: "Setting national oral health research agendas oriented tow	ards public	health programi	mes and por	pulation-base	d					
interventions"	•			'						
<b>Definition:</b> Number of oral health research projects that have investigated p	ublic health	programmes an	id populatio	n-based inter	ventions in					
the last five years										
Preferred data source: At country level:										
- National and sub-national government health research agencies										
Related links: WHO SCORE for health data technical package. Available from:	https://ww	<u>/w.who.int/data</u>	<u>/data-collec</u>	<u>ttion-</u>						
tools/score/documents										
99. If we asked for this indicator to be collected in your country by the end of 3		-			-					
(eg. oral health survey, relevant government ministry sources, health system in	nformation,	routine surveilla	ance system	s, routine adr	ministrative					
data, etc.), could that be done? *Please choose only one of the following:										
□ Vee										
☐ Yes										
□ No										
☐ I don't know/I am not in a position to answer this										
100. This indicator should be: *Please choose only one of the following:										
☐ A core indicator (should be collected in all countries)										
<ul> <li>A complementary indicator (could be collected in certain countries)</li> </ul>	)									
☐ I don't know										
Evidence-informed policy										
101. Rank the indicators in the "evidence-informed policy" category according	to their rela	avance in vour c	ountry (1 – 1	the most rele	ant and the					
higher the number the less relevant the indicator is). *Please choose the appro				ine most rele	varie arra erre					
ments the name and the resolution the material soft freeze should the appro-	, p a to . cop	0.130 101 0001110								
	First	Second	Third	Fourth	Fifth					
Oral health indicators in routine health information systems										
Collection of oral health data using WHO NCD survey tools or national oral										
health survey										
National Monitoring Framework to track oral health policy										
Percentage of government funds for oral health research										
Setting national oral health research agendas oriented towards public										
health programmes and population-based interventions										
102. Please provide any other comments regarding indicators in the "evidence	-informed p	olicy" category.	Please writ	e your answe	r here:					
<u> </u>		5 ,								
☐ Submit your survey.										
Thank you for completing this survey										