



NATIONAL ORAL HEALTH STRATEGIC PLAN 2025-2030









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Message

National Oral Health Strategic Plan (2025-2030) is a document intended to guide the efforts in achieving the vision of Delivering Optimal Oral Health Services for all Timorese people.

The Ministry of Health in Timor-Leste is taking a proactive approach to address the limitations of its dental health workforce. Since comprehensive treatment of dental issues is beyond the current capacity, the focus has shifted to promoting oral health and preventing diseases, while ensuring emergency dental care is accessible nationwide.



Implementation of an oral health strategy benefits the community in numerous ways: good dental health protects against gum diseases, gum inflammation, and tooth loss, we can improve our overall quality of life, we can build stronger, healthier communities and reduce the prevalence of oral health issues, preventive care reduces need for costly treatments, improved oral health habits, reduced risk of early childhood caries, improved oral health among elderly will reduce risk of systemic diseases, and enhanced quality of life. Taking care of oral health is crucial for citizens of all ages.

The Ministry of Health commends the contribution of all those who contributed to the development of this Strategic plan and would urge all the implementing partners for successful implementation of this strategy in the field.

"Take care of your teeth, and they'll take care of you!"

dr. Élia A. A. dos Reis Amaral,SH Minister of Health

Democratic Republic of Timor Leste

Preface

Oral health is a key indicator of overall health, well-being and quality of life. Oral Health Country Profiles by the World Health Organization showed that, the burden of oral diseases and conditions are high in Timor-Leste. The estimated prevalence of

untreated caries of deciduous teeth in children aged 1-9 years in 2019 was 44.8% and prevalence of untreated caries of permanent teeth in people of ≥ 5 years was 35.5%. Incidence of lip and oral cavity cancer for all ages in 2020 was estimated as 1.2 per 100,000 population. Oral diseases and conditions also pose a high expenditure on the Government. The total annual national expenditure on dental healthcare in outpatient dental care was estimated as US\$ 0.7 million with per capita expenditure on dental healthcare as US\$ 0.6 million in 2019.



The growing burden of oral diseases in Timor-Leste coupled with the high prevalence of oral diseases risk factors such as tobacco use, alcohol consumption and diets high in sugar, is a cause of great national public health concern.

The Government has made progress to combat the risk factors through implementation of taxes on sugar- sweetened beverage and tobacco. To improve access to health care, the oral health interventions have been included as part of health benefit package of the Government. However, efforts are needed to strengthen on oral health promotion and prevention, primary curative and restorative oral health care at Community Health Center level along with strengthening of specialized oral health care at higher levels. Enhancing workforce capacity, improving access to essential equipment, essential medicines and improving oral health information systems are the other areas that need to be addressed.

The National Oral Health Strategic Plan 2025-2030 is designed to address the priorities, of Timor- Leste enabling the country to contribute to the collective aim of the South-East Asia Region to achieve Universal Health Coverage for oral health by 2030 and to reach the targets of 33.3% relative reduction in premature mortality from oral cancer and a 25% relative reduction of prevalence of untreated dental caries of permanent teeth. To help promote, monitor and implement the National Oral Health Strategic Plan, the World Health Organization pledges to provide technical support, in collaboration with other partners.

Dr. Arvind Mathur WHO Representative Democratic Republic of Timor Leste

Acknowledgment

The development of National Oral Health Strategic Plan (2025-2030) was done through a consultative way, counting on the technical contributions of the World Health Organization (WHO) Timor-Leste, Dental Association of Timor-Leste (ADETIL), and the Ministry of Health. The plan was developed through a collaborative effort, with all team members contributing their ideas and insights to shape the final document.

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LIST OF ABBREVIATIONS

ADETIL – Dental Association of Timor-Leste

CHC – Community Health Centre

CHV – Community Health Volunteer

DMFT – Decayed, Missing, and Filled Teeth

Etch-37 – 37% Phosphoric acid semi-gel Etchant

FS – Fissure Sealant

GDP – General Dentist Practitioner

HP – Health Post

INFPM – National Institute of Pharmacy and Medical Products

INSPTL – National Institute of Public Health Timor Leste

IOPG – Intraoral Periapical Radiograph

MoH – Ministry of Health, Democratic Republic of Timor-Leste

NCD – Non-Communicable Diseases

NGOs – Non-Governmental Organizations

NH – National Hospital

NHSSP – National Health Sector Strategic Plan

OHSS – Oral Health Surveillance System

PEN – Package of Essential Services in Non-Communicable Diseases

POHC – Primary Oral Health Care

IHP – Integrated Health Program

RH – Referral Hospital

SDF – Silver Diamine Fluoride

SWOT – Strength Weakness Opportunity and Threats

UHC – Universal Health Coverage

UNDIL – University of Dili

WHA – World Health Assembly
WHO – World Health Organization

ToR –Terms of Reference

I. INTRODUCTION

Oral health is a key indicator of overall health, well-being and quality of life. It encompasses a range of diseases and conditions that include dental caries, periodontal (gum) disease, tooth loss, oral cancer, oral manifestations of HIV infection, oro-dental trauma, birth defects such as cleft lip and palate.

The Global Burden of Disease Study 2017 estimated that oral diseases affect 3.5 billion people worldwide. According to the International Agency for Research on Cancer, cancers of the lip and oral cavity are among the top 16 most common cancers (1.9%) worldwide, with nearly 188,438 deaths each year.²

Most oral diseases and conditions share modifiable risk factors with the leading non-communicable diseases (cardiovascular diseases, cancer, chronic respiratory diseases and diabetes). These risk factors include tobacco use, alcohol consumption and unhealthy diets high in free sugars, all of which are increasing at the global level. There is a proven relationship between oral and general health. It is reported, that diabetes mellitus is linked with the development and progression of periodontitis. Moreover, there is a causal link between high consumption of sugars and diabetes, obesity and dental caries.³

Untreated dental caries (tooth decay) in permanent teeth is the most common. Severe periodontal (gum) disease affects almost 10% of the global population and more than 530 million children suffer from dental caries of primary teeth.⁴ Oral diseases disproportionally affect the poor and socially disadvantaged populations. Most oral diseases have been linked with other non-communicable diseases such as cardiovascular diseases, diabetes, cancers, pneumonia, obesity and premature birth.

Most oral health conditions are largely preventable and can be treated in their early stages but treatment is often not affordable as it is not usually part of universal health coverage packages. The use of fluoride, which can substantially reduce the risk of dental caries, remains inaccessible in many parts of the world.

The World Health Assembly of 2021 approved a historic Resolution on oral health urging Member States to address key risk factors of oral diseases shared with other non-communicable diseases, such as high intake of free sugars, tobacco use and harmful use of alcohol, and to enhance the capacities of oral health professionals.⁴ It also recommended a shift from the traditional curative approach towards a preventive

approach that includes promotion of oral health within the family, schools and workplaces, and includes timely, comprehensive and inclusive care within the primary health-care system. During the discussion, clear agreement emerged that oral health should be firmly embedded within the non-communicable disease agenda and that oral health-care interventions should be included in universal health coverage programs. Subsequently, the 75th WHA in May of 2022 adopted the Global Strategy on Oral Health guides theguiding Member States to:⁵

- Develop ambitious national responses to promote oral health;
- Reduce oral health diseases, other oral conditions and oral health inequalities;
- Strengthen efforts to address oral diseases and conditions as part of UHC;
 and
- Consider the development of targets and indicators, based on national and sub-national context, building on the guidance to be provided by WHO's global action plan on oral health, in order to prioritize efforts and access the progress made by 2030.

In Timor-Leste, the National Health Sector Strategic Plan (NHSSP) 2011–2030 noted that oral health was a priority within a range of essential health interventions, and that the most common problem was dental caries, but acknowledged that the treatment of the dental problems was beyond the capacity of the existing health system. It recommended ensuring access of the whole population to appropriate oral-health services, reorientation of clinical service delivery from a curative model of care to a blend of promotive, preventive and curative interventions, and promotion of community awareness and participation in priority target groups. The NHSSP also identified as key indicators (a) increased scholarships for oral health professionals, (b) 75% of health centers implementing oral-health programs, (c) baseline data on periodontal diseases and oral cancer, and (d) at least 35% of schools participating in oral-health promotion and education.⁶

Preceding the NHSSP, was the National Oral Health Strategy developed in 2004, which in its essence recommended salt fluoridation, affordable fluoride toothpaste, a school dental service, and integration of oral health into general health promotion, focus on preschool children, pregnant women and mothers of young children, school children and people who smoke or chew betel quid.⁷

Not much information is available regarding the results of the implementation of the 2004 National Oral Health Strategy, as well as the key indicators identified in the NHSSP in Timor-Leste. However, some general information and results of specific

research published in academic papers will form the basis for the rationale of this strategic plan. The preparation and finalization of this Strategic Plan was done by Timor-Leste Dental Association (ADETIL) with technical and financial support by the WHO's country office, involving the participation of a technical consultant and intensive discussions among the experts, including the relevant officials of the Ministry of Health.

II. SITUATION ANALYSIS AND **RATIONALE**

The General Health Context 1.

Timor-Leste is geographically located at the crossroads of Southeast Asia and the Pacific, occupying half the island of Timor. According to Timor Leste Housing and Population Census 2022, the country has a population of 1,341,737 million, 70% of whom live in rural and remote areas.

The health system in Timor-Leste, according to Essential Service Package for Primary Health Care for Timor-Leste 2022, has three levels of care namely, Primary Health Care, Secondary Health Care and Tertiary Health Care. Primary health care (PHC) is provided through Health Posts (HPs) and Community Health Centers (CHCs).8 Secondary health care is provided through four Referral Hospitals and one Regional Hospital. Tertiary care is available at the National Hospital in Dili. Outreach services are delivered through mobile health teams. However, regarding basic oral health care provision, it is currently available at the Community Health Center (CHC) level in the capital of municipalities, referral hospitals and at the National Hospital. Ancillary services, such as laboratory functions and supply chain for medicines, are managed by autonomous entities at the central level.

The Ministry of Health (MoH) serves as the primary institution for governance and stewardship of the health sector, with a broad range of responsibilities that encompass:

- Policy development
- Resource mobilization
- Regulation and standard setting
- Licensing of health practitioners and providers
- Human resources management (including registration, recruitment, and placement of health professionals)
- Monitoring and evaluation

Notably, oral health issues are currently addressed by an under-resourced unit within the Department of Non-Communicable Diseases (NCDs), highlighting the need for enhanced capacity and support in this critical area.

Private providers predominantly operate in Dili, while non-governmental organizations (NGOs) support service delivery in some municipalities, typically financed by external sources of funds. From the financing perspective, the MoH is the primary financier of the public sector health services, except for large capital projects.

Some of the important achievements in the health sector during the last 20 years include,

- a) life expectancy improving from around 62.7 years in the year 2000 to 69.06 years in 20229
- b) under-five mortality rates decreasing from 111.7 in the year 2000 to 48.6 per 1000 live births in 2022¹⁰
- maternal and neonatal tetanus eliminated in 2012¹¹ c)
- elimination of measles in 2018¹²
- elimination of rubella in 2023¹² e)
- f) elimination of Lymphatic Filariasis in 2024¹³

Despite progress, Timor-Leste's health sector still faces significant public health challenges, including:

- a) The persistent public health threat of dengue, with a growing number of cases reported during the rainy season;
- b) Tuberculosis incidence rate is 486 per 100,000 population in 2021, driven by poverty, poor living conditions, high smoking rates, chronic malnutrition, lack of awareness, and stigma;¹⁴
- c) 47% of children under five years of age in Timor-Leste are stunted, 8.6 percent suffer from acute malnutrition, attributed to a combination of factors including poverty, poor sanitation, and limited health literacy;15
- d) A rising burden of Non-Communicable Diseases (NCDs), now responsible for 62% of all deaths in the country. 16

These challenges underscore the need for sustained efforts to strengthen the health system and address the underlying determinants of health.

According to a 2014 WHO survey, a significant proportion of adults in Timor-Leste exhibit multiple risk factors for Non-Communicable Diseases (NCDs), with approximately one-fifth of adults displaying three or more risk factors, including:16

- Smoking
- Inadequate diet
- High blood pressure

- Alcohol use
- Inadequate physical activity.

Notably, the same survey revealed that tobacco consumption is widespread, with 70% of men using tobacco products in some form. A comprehensive national tobacco control legislation was enacted in 2016,¹⁷ featuring one of the largest graphic health warnings on cigarette packaging globally. However, despite these efforts, smoking rates remain persistently high. Furthermore, alcohol use is deeply ingrained in Timor-Leste's culture, posing an additional challenge to public health.

2. Oral Health: Magnitude of the problem.

The first National Oral Health Strategy was released in 2004 by the Ministry of Health (MoH) and largely accepted the oral-health policy recommendations of the National Oral Health Survey. It recommended salt fluoridation, affordable fluoride toothpaste, a school dental service and integration of oral health into general health promotion, focus on preschool children, pregnant women and mothers of young children, school children and people who smoke or chew betel quid.⁷

After a decade of adoption of the National Oral Health Strategy, Bobo Soares and colleagues reviewed the progress of the implementation in 2014 and concluded in their research article that:

"Few proposals have been implemented to date, owing to (i) lack of local support for the recommendations, particularly on promotion of oral health; (ii) lack of financial and budgetary provisions for oral health; (iii) lack of focus on services, human resources and dental personnel; (iv) poor focus, design and implementation of policy and planning in oral health; and (v) lack of transport to facilitate health-care workers' access to remote areas". 18

Despite the lack of publicly available data on oral health indicators, published academic research suggests that there has been little to no progress in improving the oral health status of the population, particularly among school-aged children. This is a concerning trend that warrants attention and action to address the ongoing oral health challenges in Timor-Leste.

A study published in 2016, by Babo Soares and colleagues found that in 2014, a lower proportion of children reported brushing their teeth the previous day compared to 2002 (97% vs 100%) and a larger proportion reported having toothache (40% vs 19%) (from sometimes to very often) during the previous 12 months. ¹⁹ The mean number of decayed, missing or filled teeth in the primary plus permanent dentition (dmft + DMFT) was greater in 2014 than in 2002 (4.2 vs 3.5). There was no difference in the

prevalence of decay in the primary dentition (39% vs 37%) or the mean number of decayed, missing or filled (dmft) teeth in the primary dentition in 2014 compared to 2002 (2.0 vs 1.8). However, the prevalence of decay in the permanent dentition was greater in 2014 (70% vs 53%) as was the mean DMFT (2.3 vs 1.7). The prevalence of gingival bleeding (65% vs 81%) and calculus (57% vs 86%) was lower in 2014. This study concluded that there was an increase in dental caries experiences in Dili school children between 2002 and 2014, associated with more permanent teeth dental caries experiences.18

Another study on school aged children in Dili found that the dmft index for deciduous and permanent teeth was higher in children from mid-to-high socio-economic status than low socio- economic status schools, and that the primary dental caries experience was greater among children from mid-to-high than low socio-economic status schools, a fact that may be explained by high sugar consumption among midto-high socioeconomic school children.²⁰

A subsequent study undertaken in the Aileu Municipality to investigate the caries status and potential risk factors among primary school children found that in the primary dentition, the overall prevalence of caries was 64% and the mean DMFT score was 2.74. In the permanent dentition, the overall prevalence was 53% and the mean DMFT score was 1.74. Overall, approximately 84% of caries lesions were identified as being active.21

Despite the fact that these findings cannot be extrapolated to the whole of Timor-Leste, the available evidence suggest that dental health indicators had been deteriorating, which might be a reflection of the lack of support in the implementation of oral health programs, as identified by Babo Soares and colleagues in 2014.

3. **Oral Health Services: Human resources for oral health**

Effective implementation of oral health programs relies on an adequate workforce, including dentists, dental nurses, and dental technicians. However, data collected by ADETIL as of April 2022 reveals a significant shortage of oral health professionals in Timor-Leste. With only 18 dentists (1:72,223 population ratio) and 96 dental nurses (1:13,541 population ratio) actively providing services, the country lags far behind regional averages:

- Western Pacific region: 1:7,786 - South East Asia region: 1:15,138 - African region: 1:41,943

This stark disparity highlights the urgent need to scale up the oral health workforce in Timor-Leste to meet the population's needs.

In terms of distribution, 45% of the dentists are posted at the referral hospitals and National Hospital, while 80% of dental nurses are posted at community health centers. All the existing Health Post in the territory do not have oral health personnel.

4. Oral Health Services: SWOT (Strength, Weakness, Opportunities, Threat) analysis.

A series of workshops organized with relevant stakeholders, MoH officials and oral health workers identified the following strengths, weaknesses, opportunities and threats.

Strengths

- Commitment from the government to fill human resource posts as per the Timor-Leste strategic development plan is evident.
- MoH officials sent sixty-three Timorese students to study dentistry in a foreign university and they will be joining to serve at various health facilities in one to two vears.
- All the medicines required for dental treatment are already available in the Timor-Leste Essential Medicines List, and could be demanded by the health facilities as per the needs.
- Few Public health facilities in Dili and other municipalities areas arew equipped with well functioning dental equipments and people are availing the treatment.
- Dentists are available in Dili, Aileu, Ermera, Covalima/Suai, Liquica and Baucau.

Weaknesses

- Expenditure on health as a share of gross domestic product (GDP) and further on oral health has been low. For example, from 2019 to 2022, US\$184,635.00 was allocated by the MoH to oral health programs in the category of goods and services.
- The specialists in dental care are not able to provide the desired specialized services due to lack of appropriate equipment, instruments and materials for advanced dental care.

- General dentists are not available at Oecusse referral hospitals and almost all community health centers (CHC), except two.
- Out of the 72 Community Health Centers in Timor-Leste, only 23 CHCs have at least a dentist or a dental nurse.
- None of the Health Post in Timor-Leste has dental health personnel.
- lack of skill development and capacity building plan for the posted Dental Health Professionals impacts the enhancement of professional competencies, which inturn can have implications on patient safety.
- Senior dental nurses across various health facilities have not received capacitybuilding opportunities for an extended period.
- Dental technicians are not being utilized for the purpose they were trained due to the absence of dental laboratory at national hospital and referral hospitals.
- There is no standard format for oral health assessment.
- Health facilities report less availability or shortage of essential medicines, disinfectants, local anesthetics and dental materials.
- Low number of consultations at dental clinics due to lack of people's attention to oral health problems.
- Non-functional orthopantomogram (OPG) machine at National Hospital.
- Non-functional dental chairs and non-availability of hand instruments and other equipment at CHCs.
- Congested working area for oral healthcare professionals for treatment of patients.
- Centralized annual planning process does not involve the relevant oral health units.
- Clear roles, responsibilities, and specialization are needed to ensure a wellstructured workforce capable of providing high-quality oral health services.
- No routine inventory and maintenance of dental equipment.
- There is no Standard Operating Procedures (SOPs) for infection control at different levels of dental care (primary, secondary and tertiary).
- Dental health professionals lack access to continuous education and professional development opportunities, hindering their ability to stay updated on best practices, technologies, and research, ultimately affecting the quality of care.
- There is a relatively small amount of budget allocated to Oral Health Unit, within MoH.
- Inadequate oral health data and oral health disease surveillance system and planning.
- Low funding for research for oral health.

Opportunities

- Focus on oral health promotion and prevention approaches for various age groups.
- Developing training manuals for health workers and school teachers on oral health promotion.
- Developing Standard Operating Procedures for infection control at different levels of dental care to ensure patient safety.
- Integration of oral health with general health programs
 - Non communicable diseases program.
 - Tobacco control program.
 - School health program.
 - Nutrition program.
 - Mother and child health program.
 - Program for elderly.
 - Routine immunization.
- Utilizing the Health Management Information System (HMIS) for gaining useful insights.
- Developing standard oral health assessment forms for children and adult for both government and private health facilities.
- Motivating senior dental nurses with capacity building in area of oral health, tobacco cessation and infection control in dental operatory.
- Developing dental operatory at the level of national and referral hospital to utilize dental technicians and rehabilitate people for missing teeth with dentures, dental Implants or dental bridges.
- Timor Leste Dental Association could be utilized for advocacy and school based primary care.
- Advocate for resource mobilization for Oral Health Program.
- Ascertain the involvement of Oral Health Unit in Annual planning exercise to ensure the allocation of essential medicines, consumables and equipment for dental care.

Threats

- Tobacco consumption is embedded in socio cultural practices in Timor-Leste.
- High prevalence of tobacco usage among Timorese population.
- High sugar content in food.
- Expensive oral hygiene products.
- Poor health seeking behavior.
- Long travel distances to access referral hospitals for specialized care.

- Multiple visits required for comprehensive treatment.
- Dental equipment and materials are often wasted due to disuse.
- Lack of awareness on Oral health.

The general health context and the specific oral health context helped to shape the goal and objectives of this strategic plan for oral health service delivery in Timor-Leste. The National Oral Health Strategic Plan (2025-30) presents a guidance to improve the oral health of the Timorese population, within the existing socioeconomic, cultural, political and health system, through a more structured and attainable service delivery.

III. VISION, MISSION, GOAL AND **OBJECTIVES**

1. Vision

"To deliverOptimal Oral Health Services for all Timorese people, were every individual enjoys good oral health, with access to quality, affordable and preventive dental care, ensuring a brighter smile and a better quality of life for all."

This vision is a sub-set of the overall vision for health in Timor-Leste, "Healthy East Timorese People in a Healthy Timor-Leste", which is enshrined in the NHSSP 2011-2030, and is in line with the WHO - Global strategy and action plan on OralHhealth 2023-2030.22

2. Mission

"To promote and improve oral health services delivery, by ensuringthe support of all the stakeholders, including private oral health service providers, to achieve the vision of delivering optimal oral health services for all Timorese people."

By acknowledging the importance of collaboration with other stakeholders, the Ministry is recognizing the need for a multi-faceted approach to address the challenges outlined earlier and to ensure equitable access to orla health services.

3. Goal

By 2030, at least 50% of the Timorese people to utilize primary oral health services.

4. Objectives

In order to achieve the goal, the following are specific intermediary objectives:

- 1. By the end of 2025, initiate oral health promotion on caries prevention, (healthy diet and tobacco cessation) for specific members of the society (children, pregnant women & elderly people) and by the end of 2030 the proportion of vulnerable groups accessing the services be 50%.
- 2. By the end of 2025 initiate implementation of oral diseases prevention activities of fluoride and/or Silver Diamine Fluoride application, and by the end of 2030, services reaching at least 50% of the school-aged children.

- 3. By the end of 2030, all the CHCs to provide primary curative and restorative oral health care.
- 4. By the year 2030, National Hospital to provide selected specialized oral health care, including the establishment of a Dental Laboratory.
- 5. By the end of 2027, 4 dentists and 6 dental nurses to be sent to study in identified specialty areas in dentistry.
- 6. By the end of 2027, 20 dentists and 100 dental nurses to be recruited phase wise to provide services at all the Community Health Centers without dental personnel, and by the end of 2030, at least 50% of all existing health post to have one dental nurse.
- 7. By the end 2025, an oral health unit to be established within the Ministry of Health, and specific budget be allocated for oral health service delivery.
- 8. By the end of 2030, all the CHCs and referral hospitals to have the basic equipment, specific medicines and consumables for oral health care provision

IV. THE STRATEGIC PLAN 2025-2030

1. Strategies and Priority Actions

The goal and specific objectives will be achieved through the strategies and priority actions defined in the following table:

STRATEGIES	PRIORITY ACTIONS	OUTPUTS	OUTCOMES	TIME FRAME	RESPONSIBILITY
1. Implementation	1. Integrated Oral	 Increased access to 	 Behaviour 	2025 -	Ministry of Health
of oral health	Health Promotion	oral health	changes in oral	2030	(Oral Health Unit,
promotion	(OHP) through	promotion.	health (increased		Health Education
prevention and	school oral health,	 Increased access to 	oral hygiene,		and Promotion
basic	integrated health	fluoride and/or	reduction in sugar		Department),
treatment.	service program,	Silver Diamine	consumption,		Development
	mobile clinics, and	Fluoride (SDF)	decreased tobacco		Partners, Ministry of
	other levels of care.	application by	usage, and		Education and Other
		school children	reduction in betel		Related Ministries.
			nut chewing).		
			 Caries arrested. 		
	2. Oral disease	 Increased coverage 	700000		
	prevention.	of treated dental	• Increased number		
		caries.	סוובאסובת ובבוווי		
	3. Basic curative and	Increased number	 Increased access 		
	restorative	of CHCs providing	to treatment.		
	treatment of dental	primary curative			

STRATEGIES	PRIORITY ACTIONS	OUTPUTS	OUTCOMES	TIME FRAME	RESPONSIBILITY
	caries at CHC level.	and restorative oral health care			
	 Redesign and rehabilitation of the existing dental clinics at the CHCs. 	 Minimized working space congestion. Better implementation of Infection control procedures. 	 Better working conditions for the professionals. Minimize cross infection 		
2. Provision of selected	5. Reorganization, renovation and	Specialized oral health services will	Specialized medical and	2025 -	Ministry of Health (National Hospital.
specialised Oral	development of	be provided with	nursing care		Department of
Health Care at	specialized oral	renovation and	available at		Human Resources
National	health services at	reorganization at	National Hospital		MoH, Oral Health
Hospital.	National Hospital,	the National	in Maxillofacial		Unit).
	including the	Hospital.	Surgery, Operative		
	establishment of a Dental Laboratory.	 Establishment of dental laboratory at 	Dentistry, Periodontology		
		the National	and		
		Hospital.	Prosthodontics.		
	6. Training of oral	 Availability of 			
	health professionals	sufficient dental			
	u i	specialists.			
	Maxillofacial Surgery,				

STRATEGIES	PRIORITY ACTIONS	OUTPUTS	OUTCOMES	TIME	RESPONSIBILITY
				FRAME	
	Budgets (ABs) for	and tertiary oral			
	oral health.	health care.			
	11. Mobilization of	 Additional financial 			
	additional resources	resources for oral			
	from development	health care made			
	partners for oral	available by			
	health programs.	development			
		partners.			
	12. Definition of	Resources			
	additional strategies	mobilization			
	on financial resource	strategy for oral			
	mobilization for oral	health care			
	health.	available.			
	13. Development of	 Essential lists 	 Oral health care 	2025 -	Ministry of Health
5. Timely	essential lists of	developed.	provided without	2030	(Department of
provision of	equipment, specific		interruption		Finance, MoH, Oral
basic	medicines and		of equipment,		Health Unit,
equipment,	consumables for		specific medicines		Department
specific	oral health care.		and consumables		of
medicines and	14. Provision of	 Increased number 	supply.		Pharmacy MoH,
consumables	equipment, specific	CHCs and referral			INFPM).
ror oral nealth	medicinesand	hospitals to have			
care provision.	consumables for	the basic			

STRATEGIES	PRIORITY ACTIONS	OUTPUTS	OUTCOMES	TIME FRAME	RESPONSIBILITY
	oral health care.	 equipment, specific 			
		medicines and			
		consumables for			
		oral health care			
		provision			

1.1 Logical Framework (Log frame)-Timor-Leste's Oral Health Services Delivery Strategic Plan, 2025-2030

OBJECTIVE 1: By the end of 2025 initiate oral health promotion on caries prevention, (healthy diet and tobacco cessation) for specific members of the society (children, pregnant women & elderly people) and by the end of 2030 the proportion of vulnerable groups accessing the services be 50%.

STRATEGY 1: Implementation of Oral health promotion, disease prevention and basic treatment.

PRIORITY ACTION	IMPLEMENTA TION TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	OUTPUT	OUTCOME	RESPONSIBILITY
Integrated Oral	2025 -2030	Number of schools	Monthly,	Increase	Behaviour	 Ministryof Health (Oral
Health		(pre-school, primary,	quarterly and	d access	change In oral	Health Unit, Health
Promotion		junior-high school,	annual report.	to oral	health	Education and
(OHP) through		senior- high school);		health	(increased oral	Promotion
school oral		Number of students		promoti	hygiene,	Department),
health.		attending OHP.		on.	reduction in	 Development partners,
					sugar	Ministry of Education
					consumption,	and other related
					decreased	ministries.
Integrated Oral	2025 -2030	 Number of 	Monthly,		tobacco	Ministry of Health (Oral
Health		Integrated Health	quarterly and		usage, and	Health Unit, Health
Promotion		Service visits	annual report.		reduction in	Education and Promotion
(OHP) through		implementing OHP.			betel nut	Department),

IMPLEMENTA TION TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	OUTPUT	ОUTСОМЕ	RESPONSIBILITY
	 Number of 			chewing).	Development partners,
	community				
	members attending				
	OHP.				
2025-2030	 Number of out 	 Monthly, 			 Ministry of Health (Oral
	reach health camps	quarterly			Health Unit, Health
	implementing OHP.	and annual			Education and
	 Number of 	report.			Promotion
	household	 Quarterly 			Department),
	attending OHP.	and annual			Development partners.
	 Number of mobile 	report.			 Ministry of Health (Oral
	clinics				Health Unit, Health
	implementing OHP.				Education and
	 Number of 				Promotion
	community				Department),
	members attending				Development partners
	OHP.				

out reach health camps Integrated Oral Health

(OHP) through

Promotion Health

(OHP) through mobile clinics

Promotion

Integrated Health Services

Program

PRIORITY ACTION

Integrated Oral

OBJECTIVE 2: By the end of 2025 initiate implementation of oral diseases prevention activities of fluoride and/or Silver Diamine Fluoride application, and by the end of 2030, services reaching at least 50% of the school-aged children.

STRATEGY 1: Implementation of Oral Health Promotion, disease prevention and basic treatment

PRIORITY ACTION	IMPLEMENTATION TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	OUTPUT	OUTCO	RESPONSIBILITY
Oral disease 2025 -2030	2025 -2030	Number of	Monthly,	Increased access	Caries	Ministry of Health (Oral
prevention.		school children	quarterly and	to fluoride	arrested.	Health Department,
		having SDF	annual report.	and/or Silver		Health Education and
		application.		Diamine Fluorid		Promotion
				e (SDF)		Department),
				applicationby		Development partners,
				school children		Ministry of Education

STRATEGY 1: Implementation of oral health promotion, disease prevention and basic treatment.

PRIORITY	IMPLEMENTATIO	PERFORMA NCE	MEANS OF			
ACTION	N TIME FRAME (2025-2030)	INDICATOR (Number / %)	VERIFICATION	001700	OUTCOME	RESPONSIBILITY
Basic	2025 -2030	Number of	Monthly,	Increased number	Increase d	Ministry of Health
curative and		dental	quarterly and	of CHCs providing	access to	(Dental specialist
restorative		restorations	annual report.	restorative oral	basic	in CHCs),
treatment of				health care.	treatment	
dental		Number of	Monthly,	Increased	such as dental	Ministry of Health
caries at		dental	quarterly and	number of CHCs	restoration,	(Dental specialist
CHC level.		extractions.	annual report.	providing dental	extractions	in CHCs),
				extraction.	and dental	
		Number of	Monthly,	Increased	emergence.	Ministry of Health
		dental	quarterly and	number of CHCs		(Dental specialist
		emergencies	annual report.	providing		in CHCs),
		attended.		treatment for		
				dental		
				emergencies.		
		Number of	Monthly,	Increased access	Reduce	Ministry of Health
		scaling.	quarterly and	to scaling	periodontal	(Dental specialist
			annual report.		disease.	in CHCs),

PRIORITY ACTION	IMPLEMENTATIO N TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	ООТРОТ	ООТСОМЕ	RESPONSIBILITY
		Number of	Monthly,	Increase access	Early	Ministry of Health
		patient having	quarterly and	to routine annual	detection of	(Dental specialist
		routine annual	annual report.	check-ups.	oral diseases.	in CHCs),
		check-ups.				

OBJECTIVE 4: By the year 2030, National Hospital to provide selected specialized oral health care, including the establishment of a Dental Laboratory.

STRATEGY 2: Provision of Selected specialist for Oral Health Care at National Hospital.

PRIORITY ACTION	IMPLEMENT ATION TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	OUTPUT	ООТСОМЕ	RESPONSIBILITY
Reorganization	2025 - 2030	 ToR redefined 	 MoH/Oral 	National	Specialized	legojteN •
and refurbish		according to	Health	Hospital	medical and	• National Hosnital
ment of		tertiary level of	Department	organized and	nursing care	10301181
specialized oral		care.	Internal	refurbished to	available at	 National
health services		 Availability of 	documents.	provide	National	Hospital &
at National		material and	 MoH/Oral 	specialized	Hospital in	Ministry of
Hospital,		equipment for	Health	oral health	Maxillofacial	Health (Oral
including the		the following	Department	services.	Surgery,	Health Unit)
establishment		specialties	Internal		Operative	
of a dental		Orthodontics,	documents.		Dentistry,	 Ministry of
laboratory		Paedodontics.	 Monthly, 		Periodontology	Health (Dental
		 Number of 	quarterly and		and	specialist in
		Orthodontic -	annual report.		Prosthodontics.	NH)
		patients treated.	 Monthly, 			
		 Number of 	quarterly and			
		Paedodontic	annual report.			
		patients treated.				

PRIORITY ACTION	IMPLEMENT ATION TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	ООТРОТ	OUTCOME	RESPONSIBILITY
		 Provision of 	 Monthly, 	Dental		National
		laboratory	quarterly and	Laboratory		Hospital &
		services to	annual report.	established		Ministry of
		sustain				Health
		specialized				
		treatment.				

OBJECTIVE 5: By the end of 2027, 4 dentists and 6 dental nurses will be sent to study in identified specialty areas in dentistry.

STRATEGY 2: Provision of Selected specialist for Oral Health Care at National Hospital.

	IMPLEMENTATION	PERFORMA NCE	MEANS OF			
PRIORITY ACTION	TIME FRAME	INDICATOR	VERIFICATI	OUTPUT	OUTCOME	RESPONSIBILITY
	(2025-2030)	(Number/%)	NO			
 Training of 4 	2025 - 2030	 Number of General 	MoH/Oral	Availability	Specialized	MoH (Department
general dentist		Dentist Practitioner	Health	ofspecialist	medical	of Human
in Maxillofacial		(GDP) sent overseas	Department	to perform	and nursing	Resources,
Surgery,		to study	Internal	tertiary	care	Finance,
Periodontology,		Maxillofacial	documents.	level of oral	available at	Cooperation), NH
Operative		Surgery.		care.	National	and Development
Dentistry, and		Number of GDP sent			Hospital in	partners.
Training of 6		overseas to study			ria Surgany	
general dental		Periodontology.			Operative	
nurse in		Number of GDP sent			Dentistry,	
Orthodontics,		overseas to study			Periodont	
Pedodontics,		Operative Dentistry.			ology and	
Maxillofacial		• Number of GDP			Prosthod	
Surgery,		sent overseas to			ontics	
Periodontology,		study				
Operative		Prosthodontics.				
Dentistry, and						
Prosthodontics		 Number of dental 				

PRIORITY ACTION	IMPLEMENTATION TIME FRAME	PERFORMA NCE INDICATOR	MEANS OF VERIFICATI	OUTPUT	OUTCOME	RESPONSIBILITY
	(2025-2030)	(Number / %)	ON			
		nurses sent				
		overseas to study				
		specific areas such				
		as Orthodontic,				
		Pedodontics,				
		Maxillofacial				
		Surgery,				
		Periodontology,				
		Operative Dentistry,				
		and Prosthodontics				

OBJECTIVE 6: By the end of 2027, 20 dentists and 100 dental nurses are recruited phase wise to provide services at all the Community Health Centers without dental personnel, and by the end of 2030, at least 50% of all existing health post has 1 dental nurse.

STRATEGY 3: Recruitment and development of human resources for the provision of Primary Oral Health Care (POHC).

PRIORITY ACTION	IMPLEMENTA TION TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	ООТРОТ	ОUTCOME	RESPONSIBILITY
Recruitment of 20 dentist and 100 dental nurses for the provision of Primary Oral Health Care (POHC). Training of dentists and dentists and dental nurses for the provision of Primary Oral Health Care (POHC).	2025 - 2030	Number of Health Post and Community Health Centre with a dentist and a dental nurse, or at least a dental nurse. Number of dentist and dental nurse trained (refreshing training) to provide Primary Oral Health Care (POHC).	MoH/Oral Health Department Internal documents. MoH/Oral Health Department Internal documents.	Increased dental nurses and dentists recruited and trained to provide primary oral health care.	Primary oral health care provide d at all CHCs.	MoH (Department of Human Resources, Finance, CHCs, and Public Administration. MoH, Development partners and INSPTL
Requalification of the existing	2025	Number of dental technician	MoH / Oral Health	Increas ed oral health	Increase d access to oral	МоН (Cooperation,

PRIORITY ACTION	IMPLEMENTA TION TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	OUTPUT	ОИТСОМЕ	RESPONSIBILITY
dental technician		available to	Department	workforce.	health care.	Finance and
to dental nurse to		provide Primary	Internal			Human
health in the		Oral Health Care	documents.			Resources
provision of		(POHC).				department) and
Primary Oral						local Universities
Health Care						(UNDIL)
(POHC).						

OBJECTIVE 7: By the end 2025, an Oral Health Unit is established within the Ministry of Health, and specific budget be allocated for oral health service delivery.

STRATEGY 4: Organizational reconfiguration and mobilization of financial resources for Oral Health care.

PRIORITY ACTION	IMPLEMENTATION TIME FRAME (2025-2030)	PERFORMA NCE INDICATOR (Number / %)	MEANS OF VERIFICATION	ООТРОТ	ОПТСОМЕ	RESPONSIBILITY
Re-establis	2025	Decision making at	MoH/Oral	Oral Health	Sustainable	MoH (NCDC,
hment of an Oral		the National level.	Health	Unit	organiza	Finance, Human
Health Unit			Department	overseeing	tional and	resources) and
			Internal	the	financial	Public
			documents.	implemen	resources	Administration.
				tation of	available for	
				oral health	the provision	
				services.	of good oral	
					health care.	
Preparation of	2025	 Availability of 	MoH/Oral	AAPs		MoH (Oral
Annual Action		Annual Action	Health	and ABs		Health Unit,
Plans (AAPs)		Plans (AAPs) and	Department	prepared		NCDC, Finance)
and Annual		Annual Budgets	Internal	for		
Budgets (ABs)		(ABs) for oral	documents.	primary,		
for oral health.		health at		secondary		
		Department		and		
		level.		tertiary		
		 Specific budget 		oral health		

	IMPLEMENTATI-	PERFORMA NCE				
PRIORITY	ON TIME FRAME	INDICATOR	MEANS OF	OUTPUT	OUTCOME	RESPONSIBILITY
ACTION	(2025-2030)	(Number/%)	VERIFICATION			
		allocation in		care.		
		accordance with				
		the annual action				
		plan (AAP).				
Mobilization of	2025	 Number of 	MoH/Oral	Additional		MoH (Oral
additional		development	Health	financial		Health Unit,
resource s from		partners	Department	resources		NCDC, Finance
development		identified.	Internal	for oral		and
partners		 Amount of 	documents.	health care		Cooperation)
for oral health		additional		made		and
programs.		resources		available		Development
		available to help		by		Partners.
		sustain oral		developme		
		health programs.		nt		
				partners.		

OBJECTIVE 8: By the end of 2030 all the CHCs and referral hospitals have the basic equipment, specific medicines and consumables for oral health care provision.

STRATEGY 5: Timely provision of basic equipment, specific medicines and consumables for oral health care provision.

PRIORITY	IMPLEMENTATION	병	MEANS OF	!		
ACTION	TIME FRAME (2025-2030)	INDICATOR (Number / %)	VERIFICATI	OUTPUT	OUTCOME	RESPONSIBILITY
Development of essential lists of equipment, specific medicines and consumables for oral health care. Provision of equipment, specific medicines and consumables for oral health care.	2025-2026	 List of dental equipment available List of specific medicines and consumables for oral health care. Dental equipment available. Specific medicines and consumables for oral health care available. 	MoH / Oral Health Departmet Internal documents Departmen t Internal documents	Essential lists developed. Increased number CHCs and referral hospital s to have the basic equipment, specific medicines and consumables for oral health care provision	Oral health care provided without interruptio n of equipment, specific medicines and consum- ables supply.	MoH (Oral Health Unit, NCDC, and Finance) Health Post, CHCs and NH.

2. Institutional Arrangements for the Implementation of the **Strategic Plan**

Effective implementation of plans require appropriate organizational arrangement, as well as systems and procedures for proper management of processes and resources. As described in the section of SWOT analysis, currently the delivery of oral health services in Timor- Leste is included as one of the responsibilities of the MoH. Similarly, the mission defined in this strategic plan also confers to MoH the task of leading the provision of oral health services delivery, with the support of other stakeholders, including the private sector.

In order to be able to ''lead'', MoH will reconfigure the organizational framework for oral health delivery, which currently is under one unit staffed by one officer within the Department of Non-Communicable Diseases.

2.1. **Coordination Framework**

Coordinating the delivery of oral health services within the different levels of oral health care (primary, secondary and tertiary levels) is a function of professional authority and managerial position. Officers appointed to coordinate the delivery of oral health services ought to be professionally capable and respected, as well capable of leading and managing. This also implies certain level of hierarchy within the MoH organizational structure. As identified in the intermediatory objective, strategies and priority actions, it is proposed that a unit for oral health services delivery be re-established within the structures of the central services of MoH to oversee the implementation of this strategy, with the following core functions:

- 2.1.1. Identify and propose policies to support the implementation of oral health service delivery at different levels;
- 2.1.2. Coordinate the provision of technical, financial and logistical support to the implementation of oral health service delivery at different levels;
- 2.1.3. Ensure integration and coordination of oral health service delivery with other relevant programs within MoH;
- 2.1.4. Ensure inter-sectorial coordination to support the implementation of oral health service delivery at different levels.
- 2.1.5. Identify oral diseases and statistic data compilation done in coordination with other relevant departments within the Ministry of Health.

2.2. Implementation Framework

Within the field of implementation science, many theories, models, and frameworks have been created by various disciplines to provide both an explanatory approach and a way to prioritize variables that are essential to achieve implementation success. Such a framework should provide a pathway that clarifies the core phases and steps throughout the implementation process and should highlight the core elements within each phase that need to be defined, acted upon, and reflected upon. These phases and elements should be accessible and user-friendly to those conducting the implementation.²³

According to Moullin et. al, an organization seeking to implement a program may desire a more prescriptive framework, that outlines all the implementation stages such as the Replication Effective Programs (REP) Framework.²⁴

In fact, Kilbourne et. al described that REP is a valuable framework for implementing health care interventions, as it provides a structured approach with specified steps to maximize effective interventions while allowing for flexibility. This flexibility is particularly useful when implementing different health services interventions in various healthcare settings.²⁵

In line with the above theoretical thinking, the framework for the implementation of this strategic plan is an adaptation of the REP model as represented below:²⁵

PRE-CONDITIONS SWOT ANALYSIS

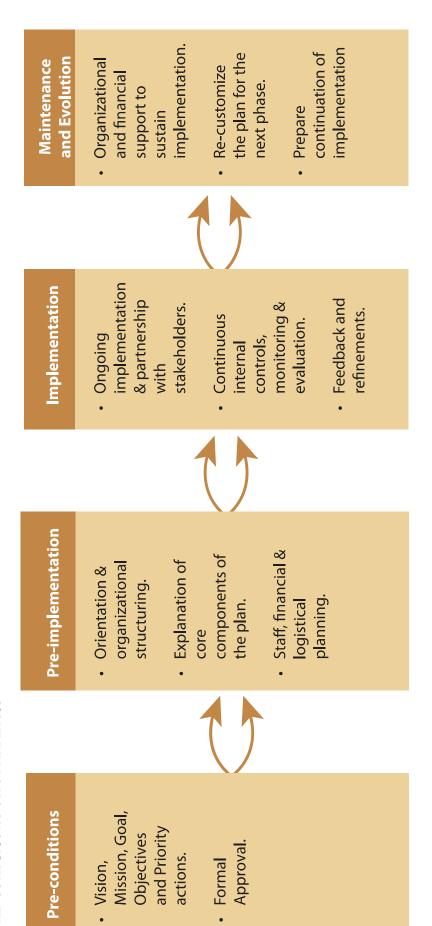


Figure 1. The implementation framework of the Oral Health Strategic Plan, adapted from the REP Framework

2.3. Communication Strategy

A communication strategy is critical to the successful implementation of a strategic plan. Strategic plans require the input, commitment, and engagement of a diverse group of stakeholders who need to be informed, involved, and invested in the process from the outset to the achievement of desired results.

The communication strategy comprises of two primary components: internal and external communication. The internal communication component encompasses:

- Ongoing communication with relevant MoH structures and programs to share updates on progress, challenges, and plan adjustments as implementation unfolds.
- Regular engagement with other key stakeholders to ensure they are informed and aligned with the plan's evolution.

Technical meetings or workshops will be convened as and when needed to facilitate these exchanges. Additionally, individuals responsible for achieving specific planned objectives will be required to submit regular progress reports, ensuring transparency and accountability throughout the implementation process.

The external communication component involves regularly sharing information with the with the broader public and specific target groups of oral health service delivery through various media channels and events, including media events such as interviews and talk-shows, distribution of mediagenic materials in the form of media kits (media advisories, news releases, fact sheets, etc.), and public posters and pamphlets.

The implementation of this communication strategy should be the core responsibility of the MoH authority in charge of coordinating oral health services delivery.

3. Monitoring and Evaluation Framework

Monitoring involves regularly tracking the progress against the defined objectives, typically through monthly to quarterly reporting on outputs, activities, and resource utilization (including personnel, time, budget, and materials). Its primary purpose is to verify that implementation is proceeding as intended, within allocated resources, and to identify any deviations or areas for adjustment.

Evaluation assesses the effectiveness of the chosen direction and the strategic allocation of resources, examining the outcomes achieved and their correlation with the outputs generated. It determines whether the desired goals were met, and if the strategies employed were successful in achieving the intended results.

The tool to be used for monitoring and evaluation of this strategic plan is the logical framework matrix described in the next section.

3.1. Logical Framework Matrix

A logical framework matrix (or log frame) is the output of a program design process where it is described how the activities will lead to the immediate outputs, and how these will lead to the outcomes and goal. The log frame for this strategic plan can be seen in *Annex 1*.

3.2. Research and Evaluation agenda

One of the key questions we need to ask ourselves when undertaking evaluation is: which components of the program are working well, for whom and under what circumstances? We need to evaluate in order to provide effective performance management, to demonstrate accountability to stakeholders and our local partners, to inform future policy, to help secure resources and to contribute to the evidence base for future planning purposes.

As such, in this strategic plan, there will be:

- 3.2.1. Continuous monitoring through regular quarterly reports by the relevant bodies in charge of overseeing the implementation of the plan;
- 3.2.2. A mid-term evaluation at the third year of the implementation period and a final evaluation at the sixth year.
- 3.2.3. Surveys on oral hygiene, sugar consumption, tobacco usage, and betelnut chewing, as well as caries prevalence surveys at the beginning and at the end of the implementation period.

3.3. Oral Health Indicators

Oral health indicators are commonly designed to monitor the burden of oral disease, the use of oral health care system and the effectiveness of oral health programs and/or oral health plans.

Ideally, Oral health indicators are designed to become part of an Oral Health Surveillance System (OHSS). At the moment, Timor-Leste does not have an OHSS. Nonetheless, the identification of the oral health indicators here, will help set the stage for future OHSS.

Based on WHO Oral health country profile indicators for 2022, which consist of 1) oral disease burden; 2) Risk factors for oral diseases; 3) Economic impact; 4) National Health system response; and with additional information on oral health service in the country, the following oral health indicators are adopted in order to contribute to the evidence-based monitoring and evaluation, as well as to a possible future OHSS.

3.3.1. Oral Disease Burden:

- 3.3.1.1. Prevalence of oral disease (%);
- 3.3.1.1.1. Prevalence of dental caries in children and adult population(%);
- 3.3.1.1.2. Prevalence of untreated caries of deciduous teeth in 1-9 years old children (%);
- 3.3.1.1.3. Prevalence of untreated caries of permanent teeth in people with > 5years old (%);
- 3.3.1.1.4. Prevalence of severe periodontal disease in people with > 15 years old (%);
- 3.3.1.1.5. Prevalence of edentulism in people with > 20years old (%).

3.3.1.2. Lip and oral cavity cancer in all ages

- 3.3.1.2.1. Number of new cancer cases of lip and oral cavity in Female and Male
- 3.3.1.2.2. Incidence rate of new cancer cases of lip and oral cavity (per 100.000 population) in Female and Male.

3.3.2. Utilization of Oral Health services

- 3.3.2.1. Basic curative and restorative oral health care. Percentage of people receiving primary and restorative oral health care, such as dental restorations, extractions, dental emergencies, scaling and other periodontal treatments.
- 3.3.2.2. Dental Visits. Percentage of adults aged 18+ who have visited a dentist

- or dental clinic in the past year;
- 3.3.2.3. School visits. Percentage of primary, pre-secondary and secondary schools visited for Oral health promotion and other preventive measures such as application of Silver Diamine Fluoride and Fissure sealant.
- 3.3.2.4. Integrated Health Services. Percentage of households visited for Oral health assessment, oral health promotion and other preventive measures such as application of Silver Diamine Fluoride.

3.3.3. Fluoridation indicators

- Percentage of population accessing fluoridated toothpaste. 3.3.3.1.
- 3.3.3.2. Percentage of population using topical fluoride application

4. Risk management matrix

The table below outlines the main risk to the implementation of this strategic plan, the assessment of the likelihood as whether it will occur or not, and the means by which these risks will be managed or reduced.

Table 1. Risk Management Matrix

		Table 1. RISK Manager		
S.No	Risk	Type of risk	Scale of	Mitigation
5.140	Universe	Type of fisk	the risk	strategy
		Oral health is not yet a priority within the health policy in Timor-Leste.	High	Intensify advocacy at the level of decision makers.
1.	Strategic	Too many competing priorities within the health sector.	Medium	Advocate priority setting within the health sector.
		Insufficient qualified human resources to manage oral health programs and to provide oral health services.	High	Accelerate the implementation of strategy 2 and 3 (see table 2)
2.	Operational	Inadequate equipment, other material resources, consumables and logistic support.	Medium	Increased efficiency in the supply chain management and logistic support.
		Lack of good oral health information system	Medium	Develop and mainstream oral health surveillance system into the health surveillance system.
		Insufficient financial resources allocated to oral health programs.	High	Accelerate the implementation of strategy 4 (see table 2)
3	Financial	Mismanagement of oral health funds	Medium	Adherence to standard protocols of public financial management.

S.No	Risk Universe	Type of risk	Scale of the risk	Mitigation strategy
		Widespread unhealthy oral health behaviour in the community	High	Intensify implementation of strategy 1 (see table 2).
4	Community	Financial and geographical barriers to oral health seeking behaviour.	Medium	Accelerate Integrated Oral Health Promotion (OHP) through school oral health, IHP.

5. Costing, financing and resource mobilization strategy

Globally, oral health expenditure accounts for only approximately 5% of total health expenditure. In high-income countries, around 20% of oral health expenses are paid out-of- pocket, whereas in most low- and middle-income countries, financial constraints hinder the provision of preventive and treatment services for oral health conditions.²⁶ In the African and Eastern Mediterranean Region, for example, dental expenditure is only 0.3% and 0.2%, respectively.²⁷

5.1. Implementation Costs of the strategic plan

Given the lack of recorded historical expenditure on oral health in Timor-Leste, it is difficult to provide an accurate estimate of the implementation costs of this strategic plan throughout its life span. However, taking the average health expenditure of the last three years, it is proposed that during the next five years, oral health expenditure in Timor-Leste should be incrementally allocated as described in table 2, below:

Table 2: Suugested allocation of budget for Oral health services 28

	Year	Year	Year	Year	Year	Year
	2025	2026	2027	2028	2029	2030
Gradual increase in budget	1% allocation to Oral Health		1% allocation to Oral Health	2% allocation to Oral Health	2% allocation to Oral Health	2% allocatio n to Oral Health
allocation	US\$0.777 million	US\$0.777 million	US\$0.777 million	US\$1.555 million	US\$1.555 million	US\$1.555 million

Oral health program should be at least an "activity" within the program budgeting structure currently adopted by the state budget, and detailed accounting systems should be in place to trace the unit costs of implementing the strategies outlined in this strategic plan. Annual allocation adjustments should be made accordingly, in line with the annual health expenditure amounts, budget execution capacities and inflation rates.

5.2. Financial Sources and Funding Gaps

According to the National Directorate of Human Resources of the Ministry of Health, the allocated budget for oral health workforce salaries from 2021 to 2024 totals US\$505,170. This indicates that there were no plans to increase the oral health workforce. Furthermore, the budget allocation for goods and services, minor capital, and infrastructure to support priority actions is unclear. To address these funding gaps, particularly for 2026, a comprehensive planning and budgeting exercise is recommended for 2026.

5.3. **Resource Mobilization Strategy**

Globally, dental care is predominantly funded by private patient payments, exceeding the level of private funding in other healthcare sectors. Notably, voluntary health insurance contributions to dental spending are minimal, while outof-pocket expenses are significant in many countries. This leads to substantial unmet dental care needs due to financial constraints, disproportionately affecting low-income households.

A comparative analysis of coverage reveals that while most countries prioritize a basic scope of dental care, including emergency services and children's care, there is significant variation in the range of services offered. This variation spans from countries with limited- service packages to those with partial or comprehensive coverage, indicating a diverse approach to dental care provision globally

A comprehensive review of financing models for oral health services reveals that various financing schemes, including fee-for-item (publicly or privately funded), capitation, and salaried models, influence the behaviors of both patients and dentists. Notably, even when oral health services are readily accessible and free, they are often underutilized by individuals from low socioeconomic backgrounds, highlighting the need to address barriers beyond financial access.

Publicly funded oral health care through taxation may offer a relatively efficient, sustainable, and equitable approach compared to alternative methods like private insurance, voluntary aid, and out-of-pocket payments.

To reduce costs, some oral health programs could be incorporated into existing primary health care programs. For example, tooth brushing with fluoride toothpaste among schoolchildren could be a part of other programs running at the schools by community health care workers.

V. ANNUAL ACTION PLAN (2025)

NO.	ACTIVITY	SUB-ACTIVITY	RESPONSIBILITY	PERFORMANCE INDICATORS	MEANS OF VERIFICATION	IMPLEMENTATION PERIOD
	Integration of Oral Health Promotion at all	Identification of IEC materials for Oral Health Promotion.	MoH Stakeholders	OHP's IEC materials identified.	Meeting reports	April - May2025
1	facility- based healthcare, Health Post,	Preparation and printing of IEC materials for Oral Health Promotion.	MoH Stakeholders	OHP's IEC Meeting materials ready for reports use.	Meeting reports	
	CHC-1, CHC-2, CHC-3, School visits, and others.	Establishment of target list.	МоН	Target list uniformed and ready to use.	Meeting reports	
		Budget calculation and request.	MoH Stakeholders	Budget identified and requested	Meeting reports	April - May 2025
		Socialization of the program to: MoH: Saude escolar, IMCI, Tobacco program, Ministry of Education (national & municipal levels).	Мом	All the relevant Ministries and entities know about the intention and methods of Oral Health Promotion implementation	relevant Meeting reports and now the and Oral notion	June 2025

NO.	ACTIVITY	SUB-ACTIVITY	RESPONSIBILITY	PERFORMANCE INDICATORS	MEANS OF VERIFICATION	IMPLEMENTATION PERIOD
		 Municipal administrators. 				
		Refresher training for dentist and dental nurses.	MoH Stakeholders	Dentist and dental nurses trained.	Meeting reports	
		Oral Health Promotion at all facility-based		Number (%) of targets as		
		healthcare, Health Post,		indicated in the	Target List	June2025
		CHC-1, CHC-2, CHC-3,	МоН	target list.		
		School visits, and others.	Stakeholders			
2	Provision of basic	Identification of the		Already available	Meeting reports	
	curative and	equipements and		Equipment and		
	restorative	consumableswhich are		consumables		
	treatment, and	already available and	МоН	identified.		
	preventive	those needed to be		equipment's and		
	measures.	procured.		consumables to be		April 2025
				procured identified.		onwards
		Budget allocation and	MoH	Budget identified	Meeting reports	
		request	Stakeholders	and requested.		
		Socialization of the		All the relevant		
		Preventive activities	МоН	Ministries and		
		program (SFD and		entities know		

NO.	. ACTIVITY	SUB-ACTIVITY	RESPONSIBILITY	PERFORMANCE INDICATORS	MEANS OF VERIFICATION	IMPLEMENTATION PERIOD
		Fissure Sealant application) to: MoH: School, Health Program,		about the intention of the preventive activities.		
	_	(national & municipal levels).			1	7,000
		Refreshing training for dentist and dental nurses.	MoH Stakeholders	Dentist and dental nurses trained.	Meeting reports	April 2025 onwards
		Provision of basic curative and restorative treatment,		Number (%) of targeted communities	Target List	April 2025
		and preventive measures.	MoH Stakeholders	receives basic curative and		
				restorative treatment, and preventive measures.		
3	Reorganization and	Liaise with NH Directorate to discuss on the tertiary	МоН	Inclusion of different	Meeting reports	April 2025 onwards
	refurbishment of specialized oral health services	level of oral Health care provision and relate to the Government	NH Stakeholders	departments and Dental Lab at the Master Plan.		

Ş	ALIMESV	VEIVIES A BILLS	PECBONICIBILITY	PERFORMANCE	MEANS OF	IMPLEMENTATION
<u>.</u>		SOB-ACITORIA	RESPONSIBILITY	INDICATORS	VERIFICATION	PERIOD
	at NHin order	Hospital Master Plan, to				
	to be able to	include the				
	provide tertiary	construction of				
	level of oral	different dental				
	health care.	departments and Dental				
		Laboratory for				
		rehabilitative care.				
		Identificationof		Already available	Meeting	
		equipment needed.		equipments and	reports	
				consumables		
			МоН	identified.		
			H	Unavailable		
				equipments and		
				consumables		
				identified.		
		Budget allocation and	МоН	Budget identified	Meeting	
		request	HN	and requested.	reports	
4	Training of oral	Identification of Dentist for		Dentist identified	Meeting reports	April 2025
	health	further studies.		and posted at NH for		onwards
	professionals on		МоН	attachment prior to		
	Maxillofacial			departure for further		
	Surgery,			studies.		

2

9

NO.

C	ACTIVITY	SIIR-ACTIVITY	PESPONSIBII ITV	PERFORMANCE	MEANS OF	MEANS OF IMPLEMENTATION
				INDICATORS	VERIFICATION	PERIOD
	development	Establishment of	ПОМ	MoU established	Meeting	
	partners for oral	Memorandum of	NOIT Staloboldovi		reports	
	health programs Understanding.	Understanding.	Stakeijolders			
		Distribution or allocation	ПОМ	Task distributed	Meeting	
		of tasks for each	NOM C+2/chology		reports	
		development partner.	Stavellotaels			

VI. HOW TO MEASURE THE OBJECTIVES

1. OBJECTIVE I: By the endof 2025, initiate oral health promotion on caries prevention, (healthy diet and tobacco cessation) for specific members of the society (children, pregnant women & elderly people) and by the end of 2030, the proportion of vulnerable groups accessing the services be 50%.

	ACTIVI ⁻	ΤΥ		INDICATOR
•	Oral	health	• Pe	rcentage of oral health promotion activities at
	promotion	٦,	all	levels:
	specificall	y on	✓	The percentage of primary, pre-secondary
	dental	caries,		and secondary school beneficiaries to oral
	healthy d	liet and		health promotion activity.
	tobacco		✓	The percentage of pregnant women, elderly
	cessation.			people, and people with special needs.
			✓	The percentage of household beneficiaries
				covered by OHP activity.

2. OBJECTIVE II: By the endof 2025 initiate implementation of oral diseases prevention activities of fluoride and/or Silver Diamine Fluoride application, and by the end of 2030, services reaching at least 50% of the school-aged children.

ACTIVITY	INDICATOR
• SDF and FS application to	 Application percentage of:
school children.	✓ SDF
	✓ FS

3. OBJECTIVE III: By the end of 2030, all the CHCs to provide primary curative and restorative oral health care.

ACTIVITY	MEASURE
Consultation / dental check-	 Percentage of Consultation /
ups and curative and	dental check-ups and curative
restorative dental	and restorative dental
treatments.	treatments.

4. OBJECTIVE IV: By the year 2030, National Hospital to provide selected specialized oral health care, including the establishment of a Dental Laboratory.

ACTIVITY	INDICATOR
• Identify the important and	 Clinical specialties identified.
much needed clinical	 Budget allocated.
specialties in the country.	• Dental lab at NH established.
• Budget allocation for the	
training of dentist in identified	
clinical specialties.	
• Establishment of Dental Lab at	
NH.	

5. OBJECTIVE V: By the end of 2027, 4 dentists and 6 dental nurses to be sent to study in identified specialty areas in dentistry.

ACTIVITY	INDICATOR
Send dentist and dental nurses to advanced studies.	 The percentage of dentist and dental nurses sent for advanced studies for specialization.

6. OBJECTIVE VI: By the end of 2027, 20 dentists and 100 dental nurses to be recruited to provide services at all the Community Health Centers without dental personnel, and by the end of 2030, at least 50% of all existing health post to have one dental nurse.

ACTIVITY	INDICATOR
Recruitment of dentists to be	• Percentage of referral
posted at referral hospitals	hospitals and CHCs with
and CHCs.	dentist.
Recruitment of dental nurses	• Percentage of referral
to be posted at referral	hospitals, CHCs and Health
hospital, CHCs, and Health	Posts with dental nurses.
Posts.	 Percentage of dentists and
• Training of dentists and	dental nurses trained on
dental nurses on POHC.	РОНС.

7. OBJECTIVE VII: By the end 2025, an Oral Health Unit to be established within the Ministry of Health, and specific budget be allocated for oral health service delivery.

ACTIVITY	INDICATOR
• Establishment of Oral	• Existence of Oral Health Unit.
Health Unit.	• Number of vacancies in Oral
Recruitment of unit staff	Health Unit.
according to the needs of	• 1% of the total annual health
the department identified	budget allocated to the Oral
in the Oral Health Strategic	Health Unit
Plan.	
Budget allocation to the	
Oral Health Unit.	

8. OBJECTIVE VIII: By the end of 2030, all the CHCs and referral hospitals have the basic equipment, specific medicines and consumables for oral health care provision.

ACTIVITY	INDICATOR	
 Identification of the provision of oral health services according to primary and secondary levels of care. Identification of dental equipment and consumables. Initiation of purchase of dental equipment's and consumables. 	 Total number of school children v/s total number of school children who received annual dental examination under school health program at primary level. Total number of schools in which oral health promotion activities were organized at primary level. Total number of dental cases which are treated at primary and secondary level of care. Total number of Dental equipment and consumables identified at primary and secondary levels of care. Total number of dental equipment and consumables purchased at primary and secondary levels of care. Total number of stock out dental equipment and consumables at primary and secondary levels of care. 	

VII. ORAL HEALTH UNIT

As identified in the intermedial objective, strategies and priority actions, it is proposed that a Unit for oral health services delivery be established within the structures of the central services of MoH to oversee the implementation of this strategy, through the following core functions:

- Identify and propose policies to support the implementation of oral health service delivery at different levels;
- Coordinate the provision of technical, financial and logistical support to the implementation of oral health service delivery at different levels;
- Ensure Inter and Intra sectoral coordination to support the implementation of oral health service delivery at different levels.
- Identify oral diseases and statistic data compilation in coordination with other relevant departments within the Ministry of Health.

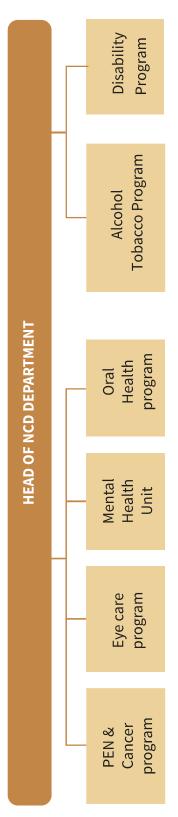


Figure 2: Organogram under NCD Department

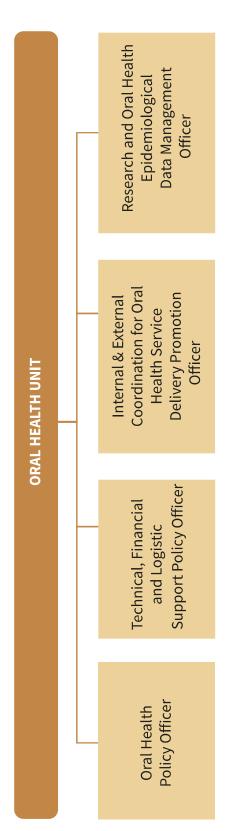


Figure 3: Proposal for creation of Sub-Units under Oral Health Unit

14 District Oral Health Focal Points and Head of Dentistry department in4 Referral Hospitals, 1 Regional Hospital and National Hospital

HUMAN RESOURCE REQUIREMENT UNDER THE ORAL HEALTH UNIT

As of now Oral health is functioning as a program with a focal person looking after the program. It is proposed to start Oral Health as a unit under NCD. The proposed staff in Oral Health Unit is as mentioned below:

- Oral Health Unit Head-1
- Oral Health Policy Sub-unit 1
- Technical, financial and logistical support Sub-unit 1
- Internal & External Coordination for Oral Health Services delivery Promotion Sub-unit -1
- Research and Oral Health Epidemiological Data Management Sub-unit 1

Terms of reference of each unit and sub unit within the unit of oral health:

Name of Subunit	Roles and responsibilities
Oral Health Unit Head	 Team leader of the Oral Health Unit. Responsible forcoordinating with Oral Health Policy Unit, Technical, Financial and Logistics Support Unit, Internal & External Coordination for Oral Health Promotion Unit and Research and Oral Health Epidemiological Data Management Unit. Responsible fororganizing monthly review meeting within Oral Health Unit. Responsible forreporting to Head of NCD Department.
Oral Health Policy Officer	 Thoroughly understand the overall policies of the Ministry of Health; Able to oversee and implement the Oral Health Strategic Plan (OHSP); Work with the Research and Oral Health Epidemiological Data Management Unit to find solution for improving Oral Health services. Understand and interprets MoH legal documents related to Health policies. Determine and implement the policies related to oral health and general health.

	 Timely review and update of oral health policies. Internal & External Coordination for oral health services delivery Prioritize areas for improvement. Will be reporting to the Head of Oral Health Unit. Able to prepare the oral health budget and annual action plan related to oral health policies. Establish good coordination with INFPM in relation to the procurement of medicines and consumables. Establish good coordination with DNEM in
Technical, financial and logistical support Officer	relation to the procurement of dental equipment's and consumables (including installation, Annual maintenance). • Maintenance of dental equipment at all levels of service provision (primary, secondary and tertiary). • Help to obtain funds for the implementation of oral health programs. • Will be coordinating with Oral Health Policy Unit for the implementation of annual action plan. • Will be reporting to the Head of Oral Health Unit.
Internal & External Coordination for Oral Health Services delivery Promotion Officer	 Establish good coordination with all directory and departments within the MoH in order to have good implementation of the programs. Responsible for coordinating with the Department of Health Education and Promotion in MOH for the implementation of Oral health activities. Responsible for coordinating with the Department of School Education and School health unit in MOH for effective

	 implementation of oral health in school children. Establish good coordination with development partners such as: NGOs, International Agencies, Health professional Associations, Private clinics, Relevant Ministries, National Universities (public and private) and foreign universities. Will be reporting to the Head of Oral Health Unit.
Research and Oral Health Epidemiological Data Management Officer	 Implement and supervise the epidemiological researches in oral health area or those related to oral health. Gather, manage and interpret oral health national data. Recap all the data from all levels of oral health services provision (primary, secondary and tertiary). Responsible for working with the stakeholders in exploring the areas where intervention is needed in Oral health. Responsible for sharing the monthly data analysis to Oral health policy unit and to the Head of NCD. Responsible for holding quarterly review meeting with focal points of oral health in all health facilities. Able to suggest policies and interventions to the problems. Will be reporting to the Head of Oral Health Unit.

VIII. LIST OF CONSUMABLES, **EQUIPMENTS AND MEDICINES REQUIRED**

I. **COMMUNITY HEALTH CENTER**

S.No.	MATERIAL	QUANTITY PER ANNUM FOR EACH CHC
1	Sharp container 5 Litres	5
2	Autoclave sterilization bag 90x260mm (200 pcs/pack)	15
3	Autoclave sterilization bag 135x255mm (200 pcs/pack)	15
4	Disinfection liquid 5 Litres	12
5	Cotton roll (pack 600)	4
6	Alcohol swab 1kg	6
7	Paper cup dispenser (100 pcs/pack)	36
8	Micro brush (100 pcs/pack)	3
9	Articulating paper (12 x 12 sheets / book)	2
10	Glass ionomer cement manual mix	24
11	Spongostan (12 pieces/ box)	2
12	Celluloid matrix strip	3
13	Wedge (pack)	1
14	Vaseline (jar 200 ml)	1
15	Calcium hydroxide cement	1
16	Dentin conditioner	24
17	Hydrogen peroxide 3% for root canal irrigation	1
18	Ethylene diamine tetra acetic Acid (EDTA) 17%	1
19	Gutta percha various size	3
20	Zinc oxide powder	1
21	Paste sealer for root canal obturation	1
22	Pulp devitalizing paste	2
23	Bonding agent	2

S.No.	MATERIAL	QUANTITY PER ANNUM FOR EACH CHC
24	Etch 37%	2
25	Paper point various size	6
26	Eugenol	3
27	Temporary filling material	5
28	Handpiece lubricant spray	2
29	Packable Composite of various shades	4
30	Formo cresol	1
31	Dental needle 27G x38mm (100 in a box)	24
32	Dental needle 30Gx25mm (100 in a box)	24
33	Gauze (roll 80cm)	3
34	Alveogyl (paste for dry socket dressing)	1
35	Tricresol formalin	1
36	Silver Diamine Fluoride (SDF)	2
37	Topical Fluoride	2
38	Lidocaine 2% adrenaline 1:80.000 cartridge (50 in a box)	72
39	Topical anaesthesia gel	1
40	Ethyl chloride spray	1
41	Catgut with needle	12
42	Disclosing solution	1
43	Endo irrigation needles	2
44	Non consumable equipment (based on need)	1

SCHOOL ORAL HEALTH PROGRAM (Promotion & Prevention) II.

S.No.	MATERIAL	QUANTITY
3.110.	MATERIAL	PER ANNUM
1	Topical fluoride	2
2	SDF	2
3	Poster/flipchart (set)	1
4	Phantom (IC)	1
5	Gasoline	1
6	Case sheet	10000
7	Oral Diagnostic set (reusable)	3
8	Kidney tray	4

9 Cotton Gauze roll	10
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IHP (Promotion & Prevention) III.

S.No.	MATERIAL	QUANTITY PER ANNUM
1	Poster/flipchart (set)	1
2	Phantom (IC)	1
3	Gasoline	1
4	Case sheet	1000
5	Oral Diagnostic set (reusable)	3

IV. MOBILE DENTAL CLINIC (Every 3 months)

S.No.	MATERIAL	QUANTITY PER ANNUM
1	Sharp container 5 Litres	1
2	Disinfection liquid 5 Litres	1
3	Cotton roll (pack 600)	1
4	Alcohol swab 1kg	1
5	Paper cup dispenser (100 pcs/pack)	2
6	Articulating paper (12 x 12 sheets / book)	1
7	Glass ionomer cement manual mix	2
8	Spongostan (12 pieces/ box)	1
9	Celluloid matrix strip	1
10	Wedge	1
11	Vaseline	1
12	Dentin conditioner	2
13	Zinc oxide powder	1
14	Eugenol	1
15	Temporary filling material	1
16	Dental needle 27G x38mm (100 in a box)	2
17	Dental needle 30Gx25mm (100 in a box)	2
18	Gauze (roll 80cm)	1
19	Silver Diamine Fluoride (SDF)	1
20	Topical Fluoride	1
21	Lidocaine 2% adrenaline 1:80.000 cartridge (50 in a box)	2

22	Topical anaesthesia gel	1
23	Chlor ethyl spray	1
24	Non consumable equipment (based on need)	1

V. REFERRAL HOSPITAL

1 Sharp container 5 Litres 2 2 Autoclave sterilization bag 90x260mm (200 pcs/pack) 12 3 Autoclave sterilization bag 135x255mm (200 pcs/pack) 12 4 Disinfection liquid 5 Litres 12 5 Cotton roll (pack 600) 4 6 Alcohol swab 1kg 6 7 Paper cup dispenser (100 pcs/pack) 36 8 Micro brush (100 pcs/pack) 3 9 Articulating paper (12 x 12 sheets / book) 4 10 Glass ionomer cement manual mix 24 11 Spongostan (12 pieces/ box) 5 12 Celluloid matrix strip 2 13 Wedge 1 14 Vaseline 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2 28 Handpiece lubricant spray 1	S.No.	MATERIAL	QUANTITY PER ANNUM PER HOSPITAL
Autoclave sterilization bag 135x255mm (200 pcs/pack) 12 4 Disinfection liquid 5 Litres 12 5 Cotton roll (pack 600) 4 Alcohol swab 1kg 7 Paper cup dispenser (100 pcs/pack) 8 Micro brush (100 pcs/pack) 9 Articulating paper (12 x 12 sheets / book) 10 Glass ionomer cement manual mix 24 11 Spongostan (12 pieces/ box) 5 Celluloid matrix strip 2 Celluloid matrix strip 2 Calcium hydroxide cement 2 Dentin conditioner 14 Vaseline 15 Calcium hydroxide cement 2 Dentin conditioner 18 EDTA 17% 19 Guttap percha various size 20 Zinc oxide powder 21 Paste sealer for root canal obturation 22 Pulp devitalizing paste 23 Bonding agent 24 Etch 37% 25 Paper point various size 10 Eugenol 27 Temporary filling material	1	Sharp container 5 Litres	2
Disinfection liquid 5 Litres 12	2	Autoclave sterilization bag 90x260mm (200 pcs/pack)	12
5 Cotton roll (pack 600) 4 6 Alcohol swab 1kg 6 7 Paper cup dispenser (100 pcs/pack) 36 8 Micro brush (100 pcs/pack) 3 9 Articulating paper (12 x 12 sheets / book) 4 10 Glass ionomer cement manual mix 24 11 Spongostan (12 pieces/ box) 5 12 Celluloid matrix strip 2 13 Wedge 1 14 Vaseline 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size	3	Autoclave sterilization bag 135x255mm (200 pcs/pack)	12
6 Alcohol swab 1kg 7 Paper cup dispenser (100 pcs/pack) 8 Micro brush (100 pcs/pack) 9 Articulating paper (12 x 12 sheets / book) 4 10 Glass ionomer cement manual mix 24 11 Spongostan (12 pieces/ box) 5 12 Celluloid matrix strip 2 2 13 Wedge 1 1 4 Vaseline 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 4 17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 2 20 Zinc oxide powder 2 1 Paste sealer for root canal obturation 2 2 Pulp devitalizing paste 2 2 Paper point various size 3 Paper point various size 5 Eugenol 2 Temporary filling material 2 Temporary filling material	4	Disinfection liquid 5 Litres	12
7 Paper cup dispenser (100 pcs/pack) 36 8 Micro brush (100 pcs/pack) 3 9 Articulating paper (12 x 12 sheets / book) 4 10 Glass ionomer cement manual mix 24 11 Spongostan (12 pieces/ box) 5 12 Celluloid matrix strip 2 13 Wedge 1 14 Vaseline 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material	5	Cotton roll (pack 600)	4
8 Micro brush (100 pcs/pack) 9 Articulating paper (12 x 12 sheets / book) 4 10 Glass ionomer cement manual mix 24 11 Spongostan (12 pieces/ box) 5 12 Celluloid matrix strip 2 13 Wedge 1 1 4 Vaseline 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 8 EDTA 17% 1 9 Guttap percha various size 2 0 Zinc oxide powder 2 1 Paste sealer for root canal obturation 2 2 Pulp devitalizing paste 2 2 2 Etch 37% 2 2 Paper point various size 5 Eugenol 2 1 Temporary filling material 2 2 Temporary filling material	6	Alcohol swab 1kg	6
9 Articulating paper (12 x 12 sheets / book) 4 10 Glass ionomer cement manual mix 24 11 Spongostan (12 pieces / box) 5 12 Celluloid matrix strip 2 13 Wedge 1 1 4 Vaseline 2 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 8 EDTA 17% 1 19 Guttap percha various size 2 20 Zinc oxide powder 2 1 Paste sealer for root canal obturation 2 2 Pulp devitalizing paste 2 2 2 Etch 37% 2 2 Paper point various size 3 Eugenol 2 Eugenol 2 Temporary filling material	7	Paper cup dispenser (100 pcs/pack)	36
10 Glass ionomer cement manual mix 24 11 Spongostan (12 pieces/ box) 5 12 Celluloid matrix strip 2 13 Wedge 1 1 14 Vaseline 2 5 15 Calcium hydroxide cement 2 16 Dentin conditioner 16 Dentin conditioner 17 Hydrogen peroxide 3% for root canal irrigation 18 EDTA 17% 19 Guttap percha various size 20 Zinc oxide powder 21 Paste sealer for root canal obturation 22 Pulp devitalizing paste 23 Bonding agent 24 Etch 37% 25 Paper point various size 26 Eugenol 27 Temporary filling material	8	Micro brush (100 pcs/pack)	3
11 Spongostan (12 pieces/ box) 5 12 Celluloid matrix strip 2 13 Wedge 1 14 Vaseline 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	9	Articulating paper (12 x 12 sheets / book)	4
12 Celluloid matrix strip 13 Wedge 14 Vaseline 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 17 Hydrogen peroxide 3% for root canal irrigation 18 EDTA 17% 19 Guttap percha various size 20 Zinc oxide powder 21 Paste sealer for root canal obturation 22 Pulp devitalizing paste 23 Bonding agent 24 Etch 37% 25 Paper point various size 26 Eugenol 27 Temporary filling material 2 2 1	10	Glass ionomer cement manual mix	24
13 Wedge 1 1 14 Vaseline 2 15 Calcium hydroxide cement 2 16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	11	Spongostan (12 pieces/ box)	5
14Vaseline215Calcium hydroxide cement216Dentin conditioner2417Hydrogen peroxide 3% for root canal irrigation118EDTA 17%119Guttap percha various size620Zinc oxide powder121Paste sealer for root canal obturation222Pulp devitalizing paste223Bonding agent224Etch 37%225Paper point various size1026Eugenol127Temporary filling material2	12	Celluloid matrix strip	2
15 Calcium hydroxide cement 2 16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	13	Wedge	1
16 Dentin conditioner 24 17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	14	Vaseline	2
17 Hydrogen peroxide 3% for root canal irrigation 1 18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	15	Calcium hydroxide cement	2
18 EDTA 17% 1 19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	16	Dentin conditioner	24
19 Guttap percha various size 6 20 Zinc oxide powder 1 21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	17	Hydrogen peroxide 3% for root canal irrigation	1
20Zinc oxide powder121Paste sealer for root canal obturation222Pulp devitalizing paste223Bonding agent224Etch 37%225Paper point various size1026Eugenol127Temporary filling material2	18	EDTA 17%	1
21 Paste sealer for root canal obturation 2 22 Pulp devitalizing paste 2 23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	19	Guttap percha various size	6
22Pulp devitalizing paste223Bonding agent224Etch 37%225Paper point various size1026Eugenol127Temporary filling material2	20	Zinc oxide powder	1
23 Bonding agent 2 24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	21	Paste sealer for root canal obturation	2
24 Etch 37% 2 25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	22	Pulp devitalizing paste	2
25 Paper point various size 10 26 Eugenol 1 27 Temporary filling material 2	23	Bonding agent	2
26 Eugenol 1 27 Temporary filling material 2	24	Etch 37%	2
27 Temporary filling material 2	25	Paper point various size	10
Temporary managements	26	Eugenol	1
28 Handpiece lubricant spray 1	27	Temporary filling material	2
	28	Handpiece lubricant spray	1

S.No.	MATERIAL	QUANTITY PER ANNUM PER HOSPITAL
29	Composite packable various shade	4
30	Formo cresol	1
31	Dental needle 27G x38mm (100 in a box)	24
32	Dental needle 30Gx25mm (100 in a box)	24
33	Gauze (roll 80cm)	3
34	Alveogyl (paste for dry socket dressing)	2
35	Tri cresol formalin	1
36	Silver Diamine Fluoride (SDF)	2
37	Topical Fluoride	2
38	Lidocaine 2% adrenaline 1:80.000 cartridge (50 in a box)	72
39	Topical Anaestesia gel	1
40	Chlor ethyl spray	1
41	Catgut with needle	50
42	Disclosing solution	1
43	Endo irrigation needles	4
44	Non consumable equipment (based on need)	1
45	Dental PA X-ray machine (based on necessity)	1

VI. NATIONAL HOSPITAL

S.No.	MATERIAL	QUANTITY PER ANNUM
1	Sharp container 5 Litres (not disposable)	5
2	Autoclave sterilization bag 90x260mm (200 pcs/pack)	15
3	Autoclave sterilization bag 135x255mm (200 pcs/pack)	15
4	Disinfection liquid 5 Litres	12
5	Cotton roll (pack 600)	4
6	Alcohol swab 1kg	6
7	Paper cup dispenser (100 pcs/pack)	36
8	Micro brush (100 pcs/pack)	3
9	Articulating paper (12 x 12 sheets / book)	4
10	Glass ionomer cement manual mix	24
11	Spongostan (12 pieces/ box)	6

S.No.	MATERIAL	QUANTITYPER
12	Celluloid matrix strip	ANNUM 2
13	Wedge	1
14	Vaseline	1
15	Calcium hydroxide cement	2
16	Dentin conditioner	24
17	Hydrogen peroxide 3% for root canal irrigation	1
18	EDTA 17%	1
19	Guttap percha various size	6
20	Zinc oxide powder	1
21	Paste sealer for root canal obturation	2
22	Pulp devitalizing paste	2
23	Bonding agent	2
24	Etch 37%	2
25	Paper point various size	10
26	Eugenol	1
27	Temporary filling material	2
28	Handpiece lubricant spray	1
29	Composite packable various shade	4
30	Formo cresol	1
31	Dental needle 27G x38mm (100 in a box)	30
32	Dental needle 30Gx25mm (100 in a box)	30
33	Gauze (roll 80cm)	3
34	Alveogyl (paste for dry socket dressing)	2
35	Tri cresol formalin	1
36	Silver Diamine Fluoride (SDF)	2
37	Topical Fluoride	2
38	Lidocaine 2% adrenaline 1:80.000 cartridge (50 in a box)	100
39	Topical Anaestesia gel	1
40	Chlor ethyl spray	1
41	Catgut with needle	100
42	Disclosing solution	1
43	Endo irrigation needles	4
44	Non consumable equipment (based on need)	1
45	Dental PA X-ray machine (based on necessity)	1
46	OPG machine	1

Note: These list of equipments, medicines and consumables was provided by

ADETIL for general oral health care provision. After the launch of this strategy, these equipments will be added to the Standard List of the Health Post and Health Center. Medicines will be added in Essential Medicines List of Timor Leste and consumables will be added in the National Consumables List of Timor Leste. Efforts will be undertaken to ensure that all health care facilities have the desired dental medicines and equipments as per their scope of services.

IX. LEVELS OF ORAL HEALTH CARE

Oral Health Care Through	Total population targeted	Provision of Oral Health Care	Responsibility	Consumable and non-consumables
		PRIMARY HEALTH CARE	TH CARE	
IHP	250-1500	Oral Health Promotion	Dentist, dental	Poster
		and Education.	nurse and also	Flipchart
		Oral Screening	CHV's to help with	Phantom
		SDF Application	health promotion	 Tooth brush and toothpaste
		 Pain Relief (medication) 	activities.	 Social media Booklet
		 Referral to advance 		 Oral Diagnostic set
		health care facility		 Disinfectant for sterilization
				 Patient status
				NSAID Antibiotic
				 SDF Referral slip
Mobile Dental	<150	Oral Health Promotion	Dentist, dental nurse	Poster
Clinic		and Education.	and also CHV's to	Flipchart
		Oral Screening	help with health	Phantom
		• SDF	promotion activities.	 Tooth brush and toothpaste
		Application		 Social media Booklet
		 Pain Relief (medication) 		 Oral Diagnostic set
		 Referral to advance 		 Disinfectant for sterilization
		health care facility		 Patient status
				NSAID Antibiotic

Oral Health Care Through	Total population targeted	Provision of Oral Health Care	Responsibility	Consumable and non-consumables
				SDF Referral slip
School Visit	Students	 Oral Health Promotion and Education. Oral Screening. SDF. Application. Pain Relief (medication). Referral to advance health. 	Dentist, dental nurse, CHVs and also school teachers to help with health promotion activities.	 Poster Flipchart Phantom Tooth brush and toothpaste Social media Booklet Oral Diagnostic set Disinfectant for sterilization Patient status NSAID Antibiotic SDF Referral slip
Health Post	At the suco level and covers population between 1,500 –2,000	 Oral Health Promotion and Education. Oral Screening. SDF. Application. Pain Relief (medication). Referral to advance health care facility. 	Dentist and dental nurse to help with health promotion activities.	 Poster Flipchart Phantom Tooth brush and toothpaste Social media Booklet Oral Diagnostic set Disinfectant for sterilization Patient status NSAID Antibiotic SDF Referral slip
Community Health Center	At the level of Administrative	 Oral Health Promotion and Education. 	Dentist and dental nurse to help with	Poster FlipchartPhantom

Oral Health	Total population	Provision of Oral Health Care	Responsibility	Consumable and non-consumables
Cale Illiougii	nai geteu	Parino Caro	no:+omora ++co4	Total hand total
Ievel I	Post. In rural	• Oral Screening	neatth promotion	• Looth brush and toothpaste
	area to cover	• SDF	activities.	 Social media booklet
	population of	Application		 Oral Diagnostic set
	around 7,500 –	 Pain Relief (medication) 		 Disinfectant for sterilization Patient
	12,000	 Referral to advance health 		status
	At urban area to	care facility		NSAID Antibiotic SDF
	cover population	Extraction		 Topical Anesthesia gel
	around 15,000	Scaling		Topical Anesthesia spray Local
		 Simple dental obturation 		anesthesia medication Alvogyl
		case		dental needle syringe cotton &
				gauze Saline
				Povidone lodine
				Spongostan & hemostatic agent
				Minor surgery kit
				 Glass ionomer cement
				 Composite Etching Bonding agent
				 Calcium Hydroxide cement
				 Arsenic Temporary filling
				 Eugenol Hand instrument set
				(scalers) Referral slip
Community	At Municipali	Oral Health Promotion and	Dentist, dental nurse	Poster Flipchart
Health Center	ty level	Education.	and also CHVs to	Phantom Tooth brush and

Oral Health	Total population	Provision of Oral Health Care	Responsibility	Consumable and non-consumables
Care Through	targeted			
level 2	 Covers total 	 Oral Screening 	help with health	toothpaste
	population	• SDF	promotion activities.	Social media Booklet
	of around	 Application 		 Oral Diagnostic set
	20,000	 Pain Relief (medication) 		 Disinfectant for sterilization
		 Referral to advance health 		 Patient status
		care facility		NSAID Antibiotic
		Extraction		 SDF Topical Anesthesia gel
		Scaling		 Topical Anesthesia spray
		 Simple dental obturation 		 Local anesthesia medication
		case		 Alvogyl dental needle syringe
				cotton & gauze Saline
				Povidone Iodine
				Spongostan & hemostatic agent
				 Minor surgery kit
				Glass ionomer
				Cement Composite
				 Etching Bonding agent
				 Calcium Hydroxide cement
				 Arsenic Temporary filling
				Eugenol Hand instrument set
				(scalers)
				Referral slip

Oral Health Care Through	Total population targeted	Provision of Oral Health Care	Responsibility	Consumable and non-consumables
Community	• In the capital	Oral Health Promotion and Education	Dentist and dental	Poster Flipchart Dhantom
Health Center	Municipality	Oral Screening	nurse to help with	 Tooth brush and toothpaste
ובייבו כ	Covers total	 Pain Relief (medication) 	activities.	 Social media Booklet
	population	 Referral to advance health 		Oral Diagnostic set
	of around	care facility		 Disinfectant for sterilization Patient
	50,000	Extraction		status
		Scaling		NSAID Antibiotic
		Simple dental Obturator case		• SDF
				 Topical Anesthesia gel
				 Topical Anesthesia spray
				 Local anesthesia medication
				 Alvogyl, dental needle, syringe
				cotton & gauze Saline
				Povidone lodine
				Spongostan & hemostatic agent
				 Minor surgery kit
				 Glass ionomer cement Composite
				 Etching Bonding
				agent
				 Calcium Hydroxide cement
				 Arsenic Temporary filling
				Eugenol

Oral Health Total pop Care Through targeted	Total population targeted	Oral Health Total population Provision of Oral Health Care Care Through targeted	Responsibility	Consumable and non-consumables
				 Hand instrument set (scalers) Referral slip

Levels of Oral	pulation	Provision of Oral Health Care	Responsibility	Consumable and non-consumables
	ומו פבובת	SECONDARY HEALTH CARE	LTH CARE	Materials
Referral	250-1500	Education and promotion	Dentist with the	Poster Flipchart
Hospital)	for oral health	help of dental	Phantom
		Oral Screening	nurse	 Tooth brush and toothpaste
		 Pain relief (medication) 		 Social media Booklet
		 Extraction of clinically 		 Oral Diagnostic set
		unrestorable tooth.		 Disinfectant for sterilization
		 Tooth Restoration (all type 		 Patient status
		of cases)		NSAID Antibiotic
		Simple periodontal		• SDF
		Treatment.		 Topical Anesthesia gel
		 Emergency treatment 		 Topical Anesthesia spray
		 Endodontic treatment 		 Local anesthesia medication
		 Intraoral Periapical 		 Alvogyl, Dental needle, Syringe
		Radiograph (IOPA) x-ray		Cotton & gauze Saline
		 Referral to advance health 		Povidone Iodine
		care center		Spongostan & hemostatic agent
				 Minor surgery kit
				 Glass ionomer cement
				Composite
				 Etching and Bonding agent
				 Calcium Hydroxide cement
				 Arsenic Temporary filling Eugenol

Levels of Oral	Levels of Oral Total population	Provision of Oral Health Care	Responsibility	Consumable and non-consumables
	tal Serea			
				Hand instrument set (scalers)
				Sterilization root canal medication
				Gutta percha Paper point
				Obturation paste
				 Hand instrument set for Ultrasonic
				Endodontic scaler
				 Drugs for anaphylactic shock
				• Oxygen
				Digital PAX-ray machine
				Referral slip
National		Chair-side Oral health	 Dental Specialist 	Poster Flipchart Phantom
Hospital		promotion and education	such as	 Tooth brush and toothpaste Social
		Oral Screening	Orthodontist,	media Booklet
		 Pain Relief (medication) 	Paedodonti st,	 Oral Diagnostic set Disinfectant for
		 Extraction of clinically 	Endodontist,	sterilization
		unrestorable tooth.	Maxillo facial	 Patient status
		 Extraction of Mobile and 	surgeon,	• NSAID
		non- restorable decayed	Prosthodontist	Antibiotic SDF
		firm tooth		 Topical Anesthesia gel Topical
		 Restoration of tooth 	 Specialist Dental 	Anesthesia spray
		 Cleaning of teeth 	nurse	 Local anesthesia medication.
		 Emergency treatment 		 Alvogyl Dental needle Syringe
		 Root canal treatment 	 Dental technician 	 Cotton & gauze Saline

Levels of Oral	ulation	Provision of Oral Health Care	Responsibility	Consumable and non-consumables
Health Care	targeted			Materials
		 IOPAX ray 		 Povidone Iodine
		OPG X ray		 Spongostan & hemostatic agent
		 Specialized treatment 		Minor surgery kit
		related to orthodontics,		 Glass ionomer cement Composite
		pedodontics, oral and		 Etching Bonding agent
		maxillofacial surgery and		 Calcium Hydroxide cement
		other specialities		 Arsenic Temporary filling Eugenol
		 Complete/ partial 		 Hand instrument set (scalers)
		removable dentures		 Sterilization root canal medication
		 Crown & bridges 		 Gutta percha Paper point
		 Inlay & onlay 		Obturation paste
		 Maxillo facial Surgery 		 Hand instrument set for Ultrasonic
				Endodontic scaler
				 Drugs for anaphylactic shock
				• Oxygen
				 Digital PA X -ray machine
				 Referral slip

X. References

- 1. GBD 2017 Oral Disorders Collaborators; Bernabe E, Marcenes W, Hernandez CR, Bailey J, Abreu LG, et al. Global, Regional, and National Levels and Trends in Burden of Oral Conditions from 1990 to 2017: A Systematic Analysis for the Global Burden of Disease 2017 Study. J Dent Res. 2020;99(4):362-373.
- 2. https://gco.iarc.fr/today/en/dataviz/pie?mode=cancer&group_populations=1&popul ations=900&show_table_pie=1&details_other=1&types=1. (Accessed, 26 August 2024)
- 3. Wu, Cz., Yuan, Yh., Liu, Hh. et al. Epidemiologic relationship between periodontitis and type 2 diabetes mellitus. BMC Oral Health.2020;20:204.
- 4. https://www.who.int/news/item/27-05-2021-world-health-assembly-resolution- paves-the-way-for-better-oral-health-care
- 5. https://www.who.int/news-room/feature-stories/detail/landmark-global-strategy- on-oral- health-adopted-at-world-health-assembly-75
- 6.! National Health Sector Strategic Plan, 2011-2030: Towards a healthy East Timorese people in a healthy Timor-Leste. Dili: Ministry of Health; 2011 https://www.mindbank.info/item/3719#:~:text=Description%20The%20National%20 Health%20Sector%20Strategic%20Plan%2020112030.the%20health%20sector%20f or%20the%20next%2020%20years. (Accessed, 26 August 2024)
- 7. National Oral Health Strategy. Dili: Timor-Leste Ministry of Health; 2004.
- 8. Essential Service Package for Primary Health Care For Timor Leste 2022. Ministry of Health Dili, Timor-Leste; 2022.
- 9. World Health Organization Data https://data.who.int/countries/626. (Accessed, 26) August 2024)
- 10. World Health Organization Data https://data.who.int/indicators/i/E3CAF2B/2322814 (Accessed, 26 August 2024)
- 11. Validation of maternal and neonatal tetanus elimination in Timor-Leste, 2012 https://iris.who.int/bitstream/handle/10665/241997/WER8748 483-492.PDF?sequence=1. (Accessed, 26 August 2024)
- 12. World Health Organization https://www.who.int/timorleste/news/detail/31-07-2023- timor-leste-eliminates-rubella. (Accessed, 26 August 2024)
- 13. World Health Organization https://www.who.int/timorleste/news/detail/08-10- <u>2024-elimination-of-lymphatic-filariasis-as-a-public-health-problem-in-timor-leste.</u> (Accessed, 18 November 2024)
- 14. World Health Organization https://www.who.int/timorleste/news/detail/07-11-2022- timor-leste-records-a-decline-in-tuberculosis-incidence-improved-testing-global-tbreport#:~:text=Dili,%208%20November%202022-%20Timor-

- Leste%20has%20shown%20a%20reduction%20in. (Accessed, 26 August 2024)
- 15. World Health Organization https://www.who.int/timorleste/news/detail/26-08-2022-timor-leste--towards-better-health-and-nutrition-of-school-aged-children (Accessed, 26 August 2024)
- 16. National survey for noncommunicable disease risk factors and injuries using approach in Timor-Leste 2014.

 https://iris.who.int/bitstream/handle/10665/204350/B5224.pdf?sequence=5&isAllowed=y (Accessed, 26 August 2024)
- 17. https://www.tobaccocontrollaws.org/legislation/timor-leste#:~:text=Decree-Law%20No.%2014%2F2016%20of%20June%208%20on%20the,the%20primary%20law%20governing%20tobacco%20control%20in%20Timor-Leste. (Accessed, 26 August 2024)
- 18. Soares LFB, Allen P, Kingi J, Thomson KR, Bettiol S, Crocombe L. Changes in the oral health of the children of Dili, Timor Leste, between 2002 and 2014. Rural and Remote Health.2016;16: 3853, 1-9.
- 19. Soares LFB, Bettiol SS, Dalla-Fontana IJ, Allen P, Crocombe LA. Opportunities in oral health policy for Timor-Leste. WHO South-East Asia J Public Health 2016; 5(2): 164–173.
- 20. Babo Soares LF, Allen P, Bettiol S, Crocombe L. The Association of Socioeconomic Status and Dental Caries Experience in Children in Dili, Timor-Leste. Asia Pacific Journal of Public Health. 2016;28(7):620-628.
- 21. Calache H, Christian B, Mamerto M, Kangutkar T, Hall M. An epidemiological study of dental caries and associated risk factors among primary school children in the Aileu Municipality, Timor-Leste. Rural and Remote Health. 2019;19: 5322.
- 22. World Health Organization, Global strategy and action plan on oral health 2023–2030.
- 23. Huybrechts I, Declercq A, Verté E, Raeymaeckers P and Anthierens S. The Building Blocks of Implementation Frameworks and Models in Primary Care: A Narrative Review. Front. Public Health.2021;9:675171.
- 24. Moullin JC, Sabater-Hernández D, Fernandez-Llimos F, Benrimoj SI. A systematic review of implementation frameworks of innovations in healthcare and resulting generic implementation framework. Health Res Policy Syst. 2015;13:16.
- 25. Kilbourne AM, Neumann MS, Pincus HA, Bauer MS, Stall R. Implementing evidence-based interventions in health care: application of the replicating effective programs framework. Implement Sci. 2007;2:42.
- 26. World Health Organization, https://www.who.int/news-room/fact-sheets/detail/oral-health. (Accessed, 12 September 2024)
- 27. Mumghamba EG, Joury E, Fatusi O, Ober-Oluoch J, Onigbanjo RJ, Honkala S.

Capacity Building and Financing Oral Health in the African and Middle East Region. Adv Dent Res. 2015;27(1):32-42.

28. Timor-Leste Budget Transparency Portal. http://www.budgettransparency.gov.tl/publicTransparency (Accessed, 25 September 2024)



