# INCREASING THE ATTENDANCE OF SMOKERS AT KLINIK PERGIGIAN MENGLEMBU TO

## **SMOKING CESSATION CLINIC**

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KEMENTERIAN KESIHATAN MALAYSIA PEJABAT KESIHATAN PERGIGIAN DAERAH KINTA

## **SELECTION OF OPPORTUNITIES FOR IMPROVEMENT**

### Introduction

- Tobacco use is a risk factor for oral cancer, oral mucosal lesions, periodontal disease and impaired healing after periodontal treatment, gingival recession, coronal and root caries. [1,2]
- In Klinik Pergigian Menglembu (KPM), the number of smokers increased from 77 in 2020 to 122 in 2021 • Since 2020, no smokers from KPM attended smoking cessation clinic in Klinik Kesihatan Menglembu
- (KKM) despite the increasing number of smokers recorded.

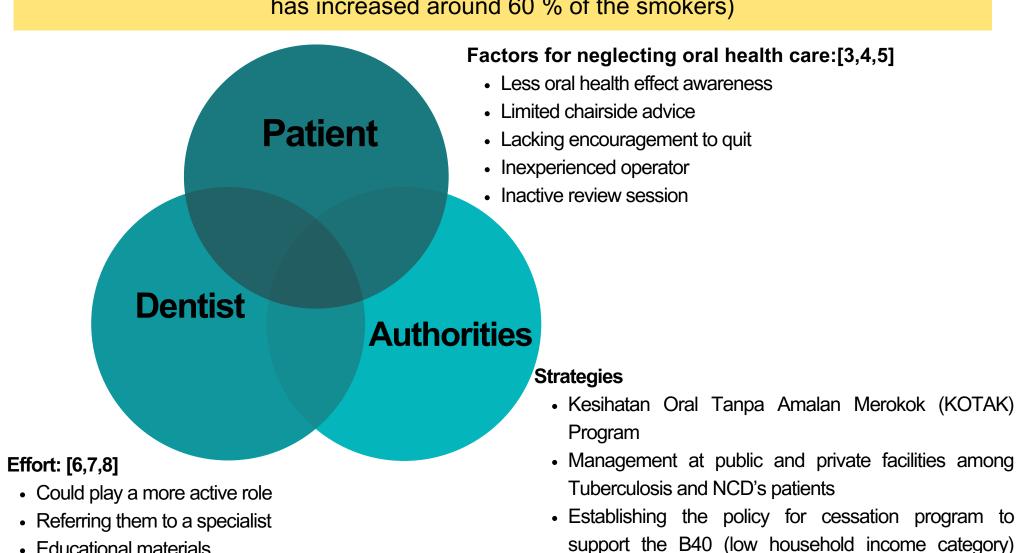
#### **SMART CRITERIA PROBLEMS TOTAL** R High percentage of primary school children with moderate plaque score 15 73 C at Klinik Pergigian Tanjung Tualang. Low oral cancer education and awareness in primary dental healthcare in Kinta District. Low attendance of smokers from KPM to smoking cessation clinic in Klinik Kesihatan Menglembu(KKM)

Prolonged smoking has increased the incidences of smoker's palate, periodontal disease and dental Data can be collected by questionnaires, Borang Status Kes Rujukan, L.P.8-2 Pin8/2019 records, checklist 3As Protocol for referral to smoking cessation clinic and checklist 5Rs Protocol for smoking status review. Dental practitioners are the first persons to check and assess a patient's oral health condition and could play a more active role in helping patients aware of the effects of smoking and in helping smokers to quit the habit. Remediable by appropriate strategies of change and multidisciplinary approach.

#### LITERATURE REVIEW

Can be completed in a timely manner.

National Health and Morbidity Survey in Malaysia 2019 reports the prevalence of current smokers and e-cigarettes at 21.3% and 4.9%, respectively; (Klinik Pergigian Menglembu has increased around 60 % of the smokers)



community

2024

## **Objective**

**GENERAL OBJECTIVE** 

Educational materials

Mutual understanding

Sample Size

Follow-up appointments

To increase the attendance of smokers at Klinik Pergigian Menglembu to Smoking Cessation Clinic.

## **SPECIFIC OBJECTIVE**

• The Control of Smoking Products for Public Health Act

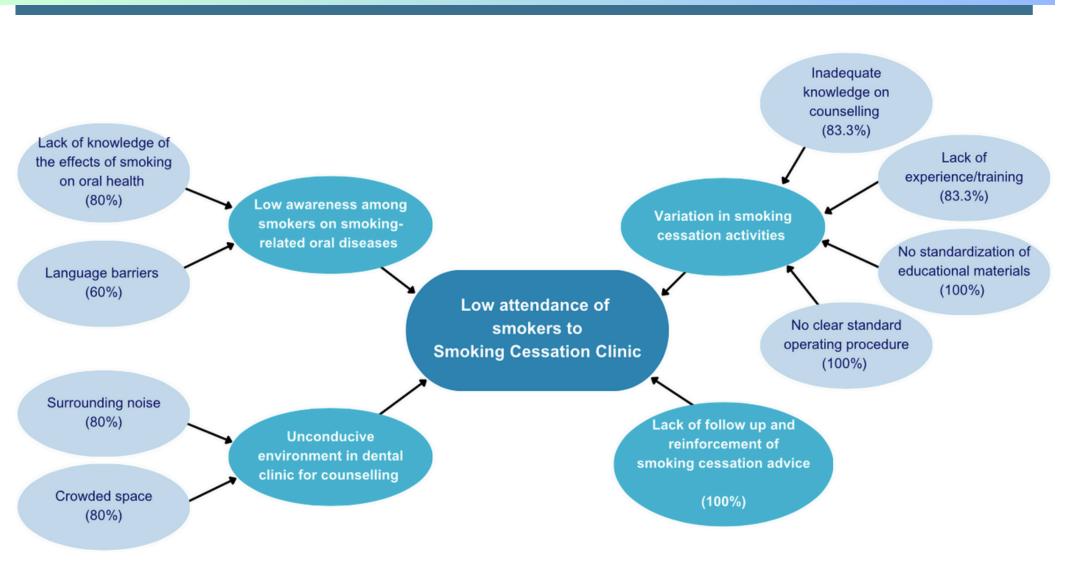
 To determine the attendance of smokers to smoking cessation clinic To identify the possible causes of low attendance of smokers to smoking cessation clinic.

To formulate and implement remedial measures. · To evaluate the effectiveness of the remedial measures

## **KEY MEASURES FOR IMPROVEMENT**

INDICATOR	FORMULA		STANDARD
Percentage of smokers who attended smoking cessation clinic	Number of smokers attended smoking cessation clinic	X 100%	50% (Based on consensus with
	Number of smokers referred to smoking cessation clinic	X 100 /0	Family Medicine Specialist)

## **CAUSE AFFECT ANALYSIS**

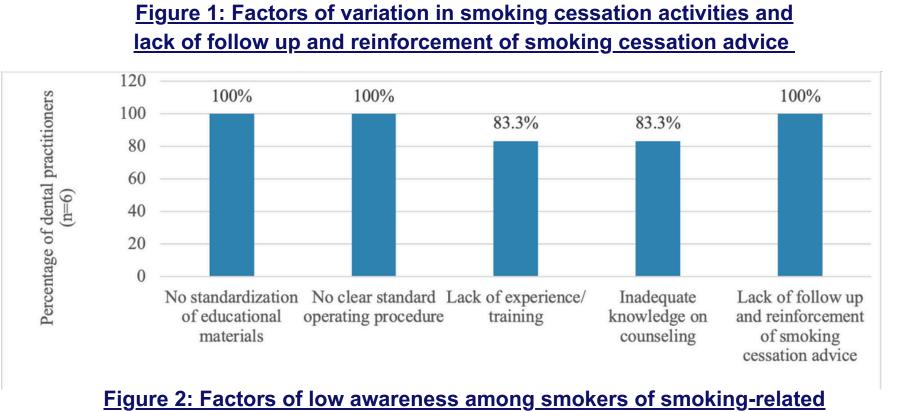


## PROCESS OF GATHERING INFORMATION

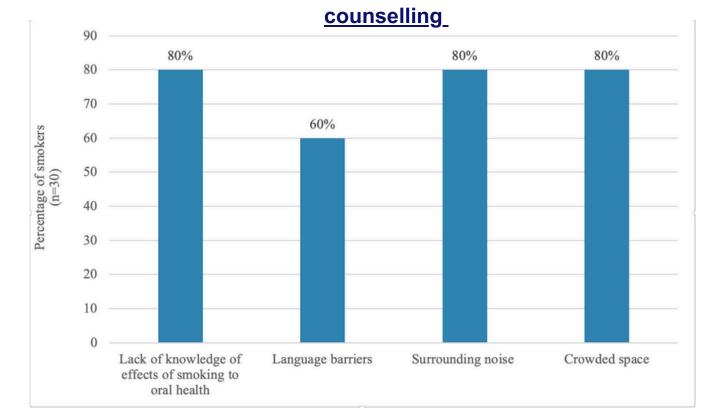
PROCESS OF GATTERING INFORMATION							
Study Design	Quality Improvement Study						
Study Period	Contributing Factors Data Collection	April-June 2023 30 smokers, 6 dental practitoners Tools: Questionnaires					
	Remedial Measures	July-September 2023					
	Post-remedial Data Collection	October-December 2023 (Cycle 1), January-March 2024 (Cycle 2) 33 smokers (Cycle 1), 36 smokers (Cycle 2), 6 dental practitioners Tools: questionnaires, <i>Borang Status Kes Rujukan</i> , L.P.8-2Pin8/2019 records, checklist 3As Protocol for referral to smoking cessation clinic and checklist 5Rs Protocol for smoking status review					
Sample Population	Inclusion Criteria: Patients with smoking habits Exclusion Criteria: Denier smoker, failed to attend appointment						
Sampling Method	Universal sampling method						

69 identified smokers

#### **ANALYSIS & INTERPRETATION**



## oral diseases and unconducive environment in the dental clinic for



THE IMPACT OF THIS PROBLEM:

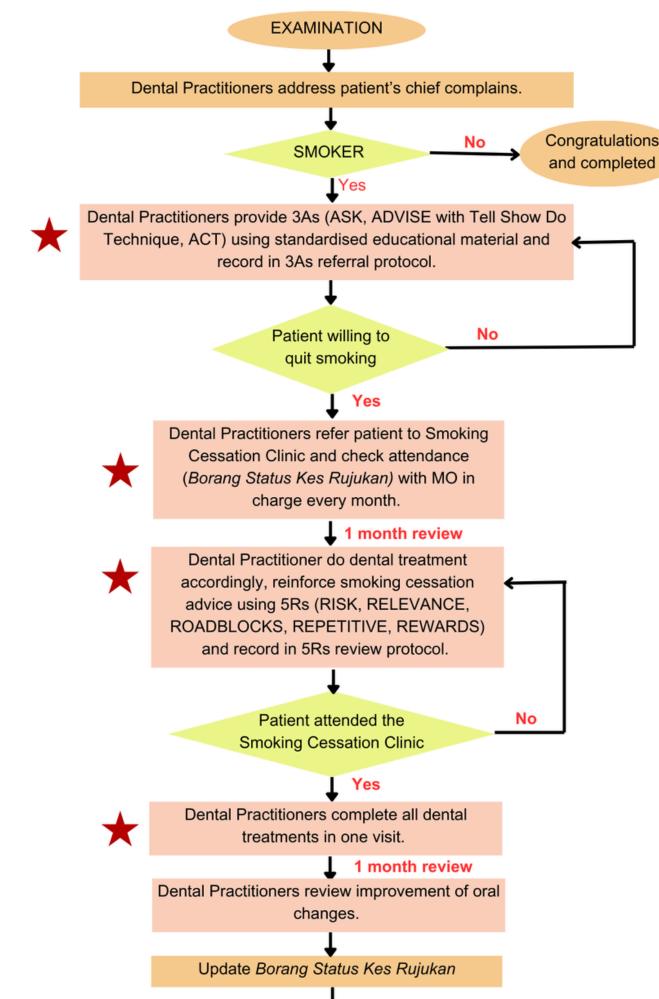


(nicotinic stomatitis)

**Dental Staining** Periodontal Disease

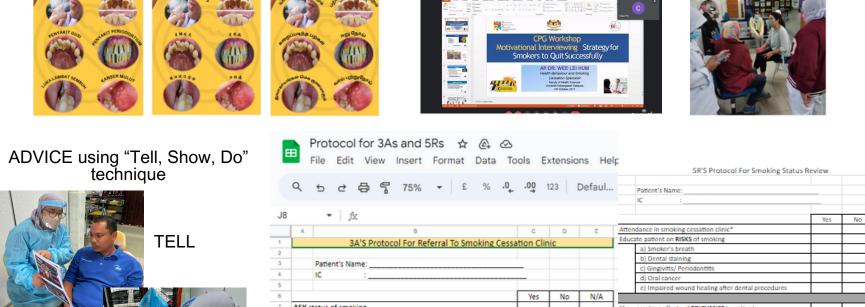
#### STRATEGIES FOR CHANGE

## **Ideal New Process of Care**



## **FACTOR 1: VARIATION IN SMOKING CESSATION ACTIVITIES**

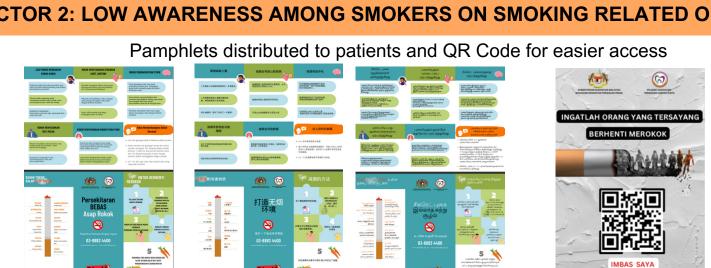
Standardisation of educational materials



CDE on 3As and 5Rs, motivational interviewing and oral mucosa changes in smokers.

# TELL smoking related oral disease d) Periodontal disease

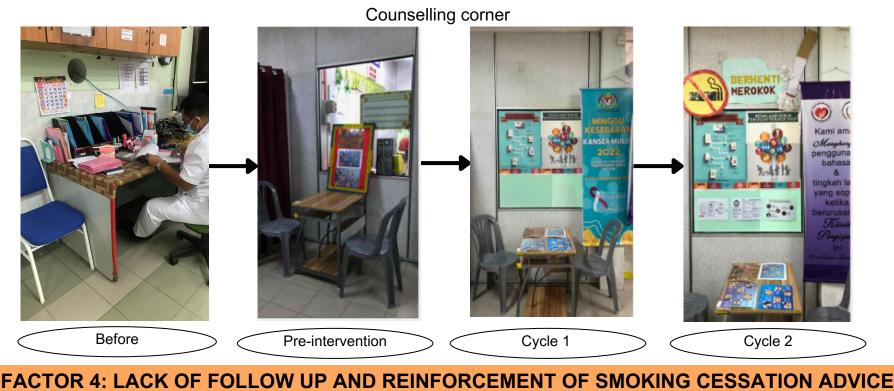
## **FACTOR 2: LOW AWARENESS AMONG SMOKERS ON SMOKING RELATED ORAL DISEASES**



e) Premalignant lesions

ACT refer to smoking cessation clinic

## FACTOR 3: UNCONDUCIVE ENVIRONMENT IN DENTAL CLINIC FOR COUNSELLING



## FACTOR 4: LACK OF FOLLOW UP AND REINFORCEMENT OF SMOKING CESSATION ADVICE

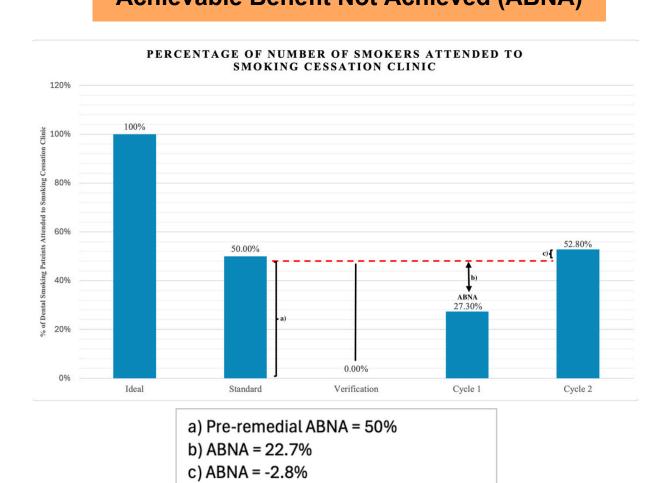


Phone call to remind patients on appointment

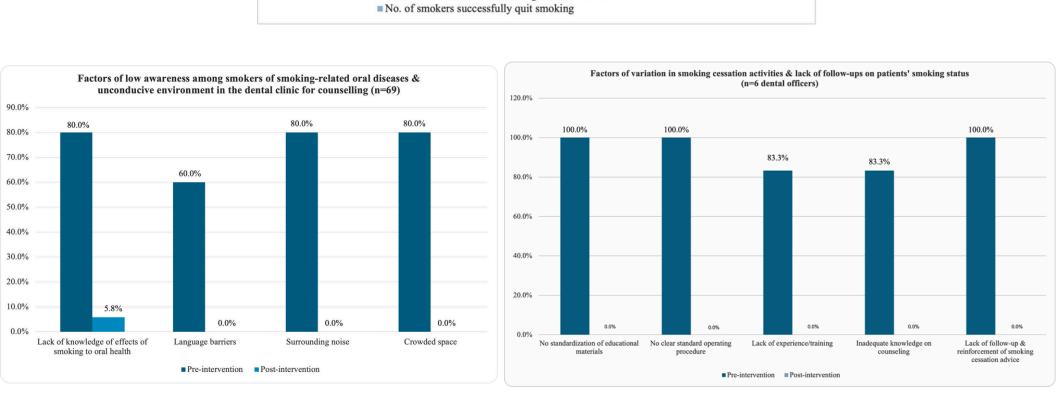
#### **EFFECT OF CHANGE**

Critical Steps	CRITERIA	STANDARD	VERIFICATION	CYCLE 1	CYCLE 2
Dental Practitioners (DP) provide 3As using standardised educational materials and record in 3As referral protocol	DP ask about the status of smoking	100%	33.3%	50%	100%
	DP advise on smoking cessation using "Tell, Show, Do Technique". DP TELL patients smoking-related oral diseases (smoker's breath, dental staining, gingivitis/periodontitis, oral cancer and impaired wound healing) based on educational materials available in 3 languages.	100%	16.7%	66.7%	100%
	DP SHOW oral mucosal changes relevant to patient  • dental staining, smoker's palate, dental caries, periodontal disease etc	100%	16.7%	50%	100%
	<ul> <li>DP DO emergency dental treatment</li> <li>localised scaling, extraction, pulp extirpation, medications</li> </ul>	100%	16.7%	66.7%	100%
	DP provide help accordingly.	100%	33.3%	50%	100%
DP refer patient to smoking cessation clinic and check attendance (Borang Status Kes Rujukan) with MO in charge every month.	Patients aware of smoking-related oral diseases	100%	20%	69.7%	94.5%
	Patients comfortable with advice given by DP	100%	20%	75.8%	100%
	DP refer patients to smoking cessation clinic	100%	16.7%	66.7%	100%
	DP check attendance with medical officer in charge of smoking cessation clinic ( <i>Borang Status Kes Rujukan</i> )	100%	100%	100%	100%
DP do dental treatment accordingly, reinforce smoking cessation advice using 5Rs and record in 5Rs review protocol.	DP reinforce the RISK of smoking following standardised educational materials	100%	0%	66.7%	100%
	DP reinforce effects of smoking of RELEVANCE to patients	100%	0%	66.7%	100%
	DP ask ROADBLOCKS faced by patients and advised accordingly	100%	0%	66.7%	100%
	DP REPETITIVE-ly showing oral mucosal changes during each review visit	100%	0%	66.7%	100%
	DP REWARD patients who attended smoking cessation clinic	100%	0%	66.7%	100%
	DP carry out dental treatment accordingly.	100%	100%	100%	100%
DP complete all dental treatments in one visit.	DP complete all dental treatments in one visit.	100%	0%	66.7%	100%
	Patient attended the smoking cessation clinic	50% (based on consensus)	0%	27.3%	52.8%

## **Achievable Benefit Not Achieved (ABNA)**



EFFECT OF CHANGE ■ No. of smokers referred to smoking cessation clinic ■ No. of smokers attended smoking cessation clinic



## **CLINICAL OUTCOME**



Resolution of

smoker's palate

THE NEXT STEP



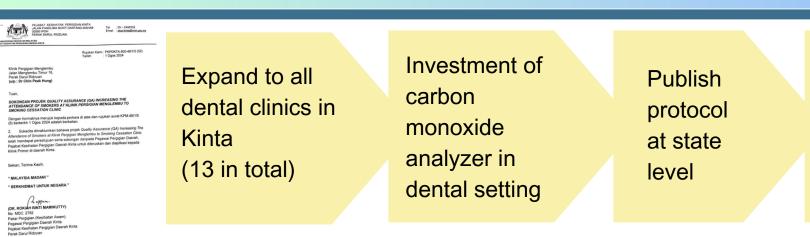
Publish

national

level

protocol at

#### Improved oral hygiene, stabilization of periodontal disease



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