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SMOKING CESSATION INTERVENTION DELIVERED BY DENTISTS (SCIDD) TRAINING MODULE

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INTRODUCTION

A Report on the Global Tobacco Epidemic stated that most adult smokers, 950 million were men and 177 million were women (WHO, 2015). In Malaysia, it is evident from the results of Global Adult Tobacco Survey (GATS) in 2011, that tobacco consumption is still a major public health problem (Institute for Public Health, 2012). The Cochrane Library recently reported that incorporation of an oral examination component for tobacco cessation conducted by dentists may increase tobacco abstinence rates among both cigarette smokers and smokeless tobacco users (Carr & Ebbert, 2012). Malaysian studies revealed that the lack of training were barriers to conduct smoking cessation treatment (Yahya & Croucher, 2005; Vaithilingam et al., 2012; Amer Siddiq et al., 2014). In Malaysia, the Ministry of Health National Oral Health Plan for 2011-2020, proposed for the first time for dentists to participate in and contribute to the success of the efforts in providing some form of care and advice to their patients against smoking (Oral Health Division, 2011). Thus, there is a need to develop a standard training module specifically for dentist to deliver smoking cessation treatment for their patients.

THE SCIDD MODULE DEVELOPMENT

The Smoking Cessation Intervention Delivered by Dentists (SCIDD) module was developed to train Dental Public Health officers to deliver smoking cessation interventions. The modules were adapted from the National Health Service, UK (Health Development Agency, 2003) using evidence-based guidelines (MOH, 2003; Fiore et al., 2008; Lando et al., 2007; Coleman, 2004). The SCIDD module was originally developed for standardization and training for a randomised control trial to compare the effectiveness of two types of smoking cessation interventions. The interventions were the brief advice and the 5A's intervention. The brief advice against smoking is the verbal instructions to stop smoking with or without added information about the harmful effects of smoking (Coleman, 2004). 5A's (Ask, Advice, Assess, Assist and Arrange) are an evidence-based framework for structuring smoking cessation in health care settings (Fiore et al., 2008).

1. DESIGNING THE SCIDD PROGRAM

The SCIDD module design was adapted from Nichter (2006) and World Health Organization (2005), for the application to tobacco cessation. Figure 1 shows the process of developing and implementing the SCIDD module. The next section discusses the steps of the process.

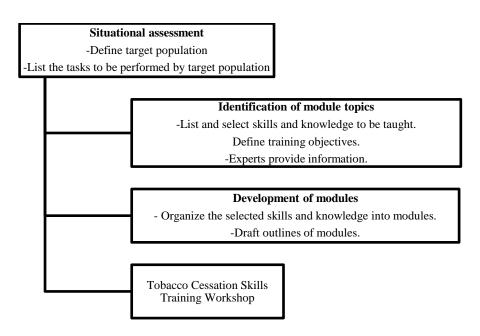


Figure 1: Steps in the development and implementation of the SCIDD module

Adapted from WHO (2005) & Nichter (2006).

2. SITUATIONAL ASSESSMENT

The situational analysis was done using the literature review, which detailed tobaccorelated knowledge, attitudes, and practices among Malaysian dentists. As Table 1 shows, four relevant studies were identified. Lack of knowledge, lack of skills, and the time-consuming nature of smoking cessation interventions were identified as problems among Malaysian dentists.

Table 1: Summary of studies on tobacco-related knowledge, attitudes, and practices among Malaysian dentists

Authors	Sample Size (n)	Main Findings
Yahya and Croucher (2005)	72	Time consuming (n=29, 40.3%).
	dentists	Lack of knowledge (n=39, 54.2%).

Asmaon and Ishak (2007)	558	Lack of information in smoking cessation
	dentists	(86.1%).
		Constrained because of lack of training in
		smoking cessation (66.0%).
		Lack of time in practice prevents involvement
		in smoking cessation (56.5%).
Vaithilingam et al. (2012)	236	Insufficient time (n=195, 82.6%).
	dentists	Lack of skills in counselling (n=165, 69.9%).
		Lack of knowledge in smoking cessation
		(n=112, 47.5%).
Amer <i>et al.</i> (2014)	223	Discussing patients' smoking habit is time-
	dentists	consuming (n=130, 60.5%).

3. IDENTIFICATION OF SCIDD MODULE TOPICS

The content of this module was identified based on the findings of the situational analysis. The module focused on basic and in-depth knowledge and skills regarding tobacco cessation and exposure to a range of clinical scenarios so as to practice cessation skills on dental patients. The objectives of the training module as follow:

- 1. To provide knowledge on tobacco use and its effects,
- 2. To explain the steps involved in the BA or 5A's approach to smoking cessation, and
- 3. To develop skills in conducting the BA or 5A's method of counselling on smoking cessation.

Therefore, at the end of the training, the dentists should have benefitted from the following learning outcomes:

 They should have been able to explain the health and oral consequences of tobacco use,

- 2. They should have been able to describe the current approaches to smoking cessation intervention in the dental clinic,
- They should have been able to demonstrate skills in assessing tobacco use in dental patients, and
- 4. They should have been able to demonstrate skills in assisting dental patients to quit tobacco use.

Based on the objectives, module content was developed for BA and the 5A's separately. To ensure the suitability of the adapted content for Malaysian use, expert opinions were sought. The experts involved were a smoking cessation specialist/consultant psychiatrist (Addiction) from the University of Malaya, Centre of Addiction Sciences, an instructional technologist, and expert in the development of training modules from the University of Malaya, and a dental public health specialist from the Ministry of Health, Malaysia. The first draft of the SCIDD module was emailed to these experts and they were asked to provide feedback.

Comments from the experts follow:

- Since the target group will be dentists who are experienced, the module should include more discussions, small group activities (role playing), and pre-planned readings; fewer lectures should be given.
- 2. The content appears appropriate.
- 3. Time constraints are an issue if the module is based mainly on lectures; and if too much information is given in one day, it will be difficult or the participants to absorb.
- 4. The trainer for the SCIDD module should ideally be one individual for consistency.

The modules were revised according to this expert feedback.

4. THE CONTENT OF THE SCIDD TRAINING MODULE

The SCIDD training module has two modules (Figure 2). Two major outcomes for both modules are knowledge and skills. Multiple teaching methods are used. They include lectures, planned reading (self-reading), small group discussions, case studies, and role play. Module 1 covers the BA intervention; the total training time is 4 hours and 30 minutes. Module 2 covers the 5A's intervention; the length of training time is 6 hours. Tables 2 and 3 show the detailed lesson plan, core content, key learning outcomes, objectives, and types of delivery methods for Module 1 and Module 2, respectively.

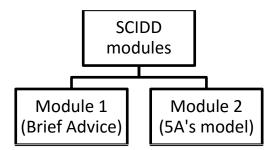


Figure 2: The Smoking Cessation Intervention Delivered by Dentists (SCIDD) modules

Table 2: Core content areas and key learning outcomes for Module 1: Brief Advice (BA) intervention (4 hours 30 minute)

NO.	LESSON	CORE CONTENT	KEY LEARNING OUTCOMES	OBJECTIVE(S)	DELIVERY METHODS
1.	Smoking, health, and oral health (1 hour, 30 minutes)	Health and oral health effects of smoking. Behavioural and pharmacological determinants of smoking behaviour. The health benefits of quitting.	 Able to list the major life-threatening and non-life-threatening diseases related to oral and general health caused by smoking and potential years of life lost. Able to describe the effects of passive smoking on adults and children. Able to explain the benefits of quitting smoking. Able to describe compensatory smoking in relation to reducing the frequency of smoking or switching to lower tar cigarettes. 	Knowledge Knowledge Knowledge Knowledge	 Planned reading Group discussion Case studies
2.	The Brief Advice Guideline for Smoking Cessation in a Dental Setting (Gordon <i>et al.</i> , 2007; Coleman, 2004) (1 hour, 30 minutes)	Ask and record smoking status. Assessing a person's readiness to change. Assessing tobacco use and nicotine dependence. Advice all smokers to quit.	 Able to ask about smoking in an appropriate way, to elicit an accurate response. Able to record status and action taken in an appropriate computer or paper-based system. Able to ask appropriate questions to assess readiness to attempt to quit. Able to assess willingness to use appropriate treatments. Assess a client's nicotine 	Skills Skills Knowledge/Skills Skills Skills Skills	 Lecture Group discussion Case studies Role play Clinical demonstratio n

			7.	dependence using an appropriate method. Assess a client's commitment to the present quit attempt and to attending treatment. Able to describe the relevance to treatment of past quitting history and smoking characteristics. Able to demonstrate the use of the CO monitor as a motivational tool and as a means of assessing and validating smoking status.	Knowledge Skills		
3.	The Effects of Quitting Smoking. (Standard for Training in Smoking Cessation Training 2003. Health Development Agency, National Health Service, UK) (1 hour, 30 minutes)	Barriers to quitting smoking. Withdrawal syndrome in smoking cessation.		Able to describe the main features of the tobacco withdrawal syndrome. Able to describe the common and less common tobacco withdrawal symptoms and their duration. Able to address problems with patient's motivation, strong withdrawal reactions, and adherence to treatment.	Knowledge Knowledge Skill	•	Lecture Group discussion Case studies Role play

Table 3: Core content areas and key learning outcomes for Module 2: 5A's intervention (6 hours)

NO.	LESSON	CORE CONTENT	KEY LEARNING OUTCOMES	OBJECTIVE (S)	DELIVERY METHODS
1.	Smoking, health, and oral health (1 hour, 30 minutes)	Health and oral health effects of smoking. Behavioural and pharmacological determinants of smoking behaviour. The health benefits of quitting.	 Able to list the major life-threatening and non-life-threatening diseases related to oral and general health caused by smoking and potential years of life lost. Able to describe the effects of passive smoking on adults and children. Able to describe behavioural and pharmacological determinants of smoking behaviour. Able to explain the benefits of quitting smoking. Able to describe compensatory smoking in relation to reducing frequency of smoking or switching to lower tar cigarettes. 	Knowledge Knowledge Knowledge Knowledge Knowledge	 Planned reading Group discussion Case studies
2.	The 5A's Guideline for Smoking Cessation in a Dental Setting (Gordon et al., 2007; Coleman, 2004). (2 hours)	Ask and record smoking status. Assessing a person's readiness to change. Assessing tobacco use and nicotine dependence. Advising smokers to quit. Assisting smokers to quit.	 Able to ask about smoking in an appropriate way, to elicit an accurate response. Able to record status and action taken in an appropriate computer or paper-based system. Able to ask appropriate questions to assess readiness to make a quit attempt. Able to assess willingness to use appropriate treatments. Able to assess a client's nicotine dependence using an appropriate method. 	Skill Skill/ Knowledge Skill Skill Skill Knowledge	 Lecture Group discussion Case studies Role play Clinical demonstrati on

6. Able to assess a client's commitment to		
the present quit attempt and to attending	Skill	
treatment		
7. Able to describe the relevance to		
treatment of past quitting history and		
smoking characteristics.		
8. Able to demonstrate the use of the CO		
monitor as a motivational tool and as a		
means of assessing and validating		
smoking status.		

Table 3: Core content areas and key learning outcomes for Module 2: 5A's intervention (6 hours) (continued)

NO.	LESSON	CORE CONTENT	1. KEY LEARNING OUTCOMES OBJECTIVE (S) DELIVERY METHODS •
3.	The Effects of Quitting Smoking (Standard for Training in Smoking Cessation Training 2003. Health Development Agency, National Health Service, UK) (1 hour, 30 minutes)	Barriers to quitting smoking. Withdrawal syndrome in smoking cessation.	 2. Able to describe common barriers to quitting. 3. Able to describe the main features of the tobacco withdrawal syndrome. 4. Able to describe the common and less common tobacco withdrawal symptoms and their duration. 5. Able to address problems with patient's motivation, strong withdrawal reactions, and adherence to treatment. Knowledge Knowledge Knowledge Group discussio n Case studies Role play
4.	Behavioural Support in Smoking Cessation (1 hour)	Relapse prevention. Cognitive and behavioural strategies to assist cessation.	 Maximize commitment to the target quit date. Able to discuss relapse situations and known predictors of relapse. Able to deal appropriately with lapses and with full relapse during treatment. Respond to common questions and issues raised by smokers. Knowledge Skill Case studies Role play

MODULE AND WORKSHOP IMPLEMENTATION

A one-day workshop was held for training and standardization of each intervention on two separate dates. Eight Dental Public Health specialists from the Ministry of Health Malaysia were trained in interactive learning methods involving planned readings, lectures, group discussion and role-plays in a one day session. However, only six were actively involved in the clinical trial. A simulated practical session on the interventions and the clinical protocol was carried out on mock patients. The six participating dental public health specialists' ranged from 49 to 54 years old. Five females had 25 to 30 years of clinical practice experience. At the initial phase of the trial, 192 eligible dental patients were recruited for the 5A's group, while for the brief advice group was 208 dental patients.

Dentists could be trained and has a role in counselling patients to quit smoking. Furthermore, dentists have the greatest potential to promote a decrease in tobacco use showing its relevance to oral health effect and thus, a decrease in tobacco induced mortality and morbidity.

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