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An Interactive School Health Programme on Smoking Prevention: Implications for future research

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Abstract

In order to make Malaysia a developed nation by 2020 one of the crucial things is health care and to conduct prevention at an early stage. Hence, health education programme at an early stage has been conducted with primary school children to prevent them from engaging in negative behaviours such as smoking. Currently, the health education programme was organized in poster presentation form. However, in these studies, it was transformed into an interactive school health programme with an active participation from the school children. It is designed to increase the children's learning retention through an active interaction programme.

Keywords: Interactive Programme; School Children; Smoking Prevention; Health Education.

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1.0 Introduction

Decades ago, the school atmosphere has been a focal point of hard work to influence adolescents on the consequences of smoking behaviour and other negative behaviours such as alcohol consumption and misuse of drugs (Woolfall et al., 2008). The major perceived advantages are most of the children can be reached through schools and a focus on tobacco education fits naturally within their daily activities. Consequently, the school plays an important role especially in academic tasks and also in determining values, attitudes and behaviours in our children. Currently, there is a dearth of investigations and reporting on pupils of the lower secondary level whose recent entrants to secondary schools are at higher risks due to their immaturity which may initiate bad behaviours such as smoking.

In 2003, a survey conducted by the Malaysian Global Youth Tobacco Survey (GYTS) identified that one in three students have smoked cigarettes, 25.3% of the students have used other tobacco products, 19.9% presently smoke cigarettes and 7.9% presently use other tobacco products (Manimaran, 2003). Ceasing to smoke cigarettes is a hard task due to the nature of nicotine addiction, advocating for non-smokers to avoid smoking is relatively easier compared to persuading smokers to quit. Schools are benefit-yielding organisations with crucial functions for the development of the nation's future through education. Schools are the most suitable places for the implementation of prevention programmes. This is important to ensure that young children are physically and mentally healthy (Lee & Tam, 2014).

An achievable outcome is through the enhancement of the children's physical and mental abilities. However, with multiple negative factors lurking within the social environment, this achievement could be jeopardised. Tobacco smoking, alcohol and illicit drug consumptions, poor maintenance of physical, mental and general health among others can be major inhibitors. Thus, to prevent health problems and in order to produce the next healthy generation who are able to serve the society and nation, the logical strategy is to tackle the issue among children from the primary school level (Asia et al., 2007).

A majority of smokers and negative behaviours begin from the adolescent age (Norbanee, Norhayati, Norsa'adah, & Naing, 2006). Evidence supports the effectiveness of some school-based interventions tackling smoking misuse, dietary risks and sedentary

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behaviour (Gorini et al., 2014). As it stands, the most preventive school health programmes are stand-alone programmes and are delivered separately by various agencies. To improve on this, an interactive school health prevention programme is being developed. As such, this interactive school health intervention programme is an amalgamation of anti-smoking, inclusive of the basic healthcare education for primary school children. It is designed to increase the children's learning retention through an active interaction programme. The aim of this programme is to increase awareness and knowledge regarding tobacco use and the side effects of smoking from an early age. The content in the programme enables school children to be critical viewers and critical thinkers towards tobacco use and the importance in prevention at an early age.

2.0 Literature Review

The study by WHO found that uses of harmful and hazardous licit substances such as tobacco are responsible for a myriad of risk factors causing social, financial, legal, and relationship problems for the individual and their families and eventually the communities at large. It has been proven that licit substances such as tobacco is among the top 20 factors causing ill-health worldwide (WHO, 2011). Diseases associated with smoking such as cancer and cardiovascular disease are the major causes of early death worldwide. The recent global estimate of 1.3 billion smokers is likely to increase to 1.6 billion by 2025, and the number of deaths due to diseases associated with smoking is likely to reach 8.3 million by 2030, up from 4.8 million in 2006 (Mathers & Loncar, 2005). In two decades, teenagers become more exposed to tobacco advertising at an early age and most of the smokers reported that they began smoking before the age of ten (WHO, 2011).

Smoking behaviour has been and will be a problematic behaviour that demoralises academic success. This correlates with poor school commitment, risky sexual behaviour, and subsequent behavioural and emotional disorders in adulthood (Hiemstra et al., 2014). It is predicted that by the end of the 21st century, tobacco will have killed one billion people (WHO, 2008). The earlier the children begin to smoke, the harder the possibility to quit the habit (Storret al., 2004). Normally, it is very hard for a person to stop smoking once he has become a habitual smoker. Another study has shown that the earlier the youngsters, chances are that largely they will be addicted to nicotine and become smokers upon reaching adulthood (Office of Adolescent Health, U.S. of Health & Human Services, 2013).

Broad scopes of factors have been identified to have an influence on younger children's smoking and these also include negative behaviours such as substance abuse (O'Loughlin et al., 2009). Other studies showed several threat factors have been identified in the prophecy of adolescent smoking behaviours. These factors include age, male gender, parental smoking, smoking friends, socioeconomic status, family problems, and the perception that smoking is harmful to health and tobacco advertisements (Gaffar et al., 2013).

Smoking among children in early ages is well documented as a common cause of smoking because the dependency on smoking can occur between 60-90% of people who have smoked more than a few cigarettes. The earlier people start to smoke, the higher their potential of becoming a habitual smoker as well as being increasingly difficult to stop smoking (Guo, Lee, Liao, & Huang, 2015). Most children experiment with smoking in the adaptation period from primary to secondary school. Prevention programmes must be focused to increase knowledge and positive attitudes towards non-smoking (anti-smoking attitudes), self-efficacy and skills to reject cigarettes among children who have never smoked. Numerous programmes are being developed to overcome the smoking habit among school children. Most of these programmes are delivered in the school setting. However, the effectiveness of the programmes in the schools have had mixed results (Malmberg et al., 2014).

3.0 Methodology

3.1 Participants

A quasi-experimental design with an intervention programme was used in the pilot study. In this study, two groups are needed in which one group of participants have an intervention programme in the school selected while the other group acts as a control group at the school selected. The purposive sampling is used in this study with selected criteria randomly used to identify the correct sample. Due to the suitability of the content of the intervention package, only level 2 of the school children were selected to participate in the study. A similar procedure was used to get samples from the control group. The researcher established a sampling frame and described the elements on how the sample will be chosen. The intervention group received the interactive school health programme while the control group did not.

3.2 Instrument

The questionnaire used in this pilot study is adapted from the global school-based student health survey (GSHS) (WHO, 2013). The questionnaire is divided into four sections. Section A gathers basic demographic data of the students. On the other hand, section B, section C and section D gathers information on their general knowledge about cigarettes, the dangers of smoking and knowledge on the ban of smoking. Each individual item of the questionnaire contributes to one group score and response for each item. The total marks were then converted into a percentage in order to be fed into the knowledge scoring scale adopted from a previous studied by Swe & Bhardwaj (2012). The students' marks were translated into a knowledge score before being grouped into three levels consisting of poor knowledge level, fair knowledge level and good knowledge level. Poor knowledge level was decided as a score of

less than 33.3% of the individual total scores. Fair knowledge level was determined as scores of 33.3% or higher but less than 66.6% of the individual total scores. Good knowledge level was decided as score more than or equal to 66.6% of the individual total scores.

3.3 Intervention Package

As a pilot study, the Interactive School Health Programme on Prevention of Smoking (IPoPS) was developed based on previous literature, adapted and adopted from the tobacco prevention in children (ToPIC) by Smith et al., (2008) and with a small modification to accommodate the Malaysian culture. Based on the literature reviewed, this is the first interactive programme package that educated school children on the prevention of smoking with an interactive and fun learning process in Malaysia. This interactive programme package allowed school children to learn new concepts of learning and is suitable for the Malaysian culture. This IPoPS programme will be given to the school children with sessions on licit and illicit substance abuse and healthcare programmes. The initial length of the IPoPS intervention programme is nine (9) hours within 3 days. The major topics presented were: Mr Fire Extinguisher and Mr Cigarette, side effect of smoking, anti smoking slogan, personal stories from "achievers", complications of smoking, tobacco resistance skills, IKRAR: of anti-smoking and healthy body, healthy mind and environment

The aim of the IPoPS programme is to increase awareness and knowledge regarding tobacco use and the ill effects of smoking as well as all the side effects of smoking from an early age. The content in the IPoPS programme enables school children to be critical viewers and critical thinkers towards tobacco use and the importance of prevention at an early age. The IPoPS programme was created by a qualified lecturer who had experience in Community School Health. The programme was also disseminated to other groups of lecturers at the Nursing Department of UiTM. To make the programme a reality, the groups of lecturers conducted an intensive training session for degree students of UiTM one month before the actual IPoPS programme. The students were briefed on the content of the IPoPS programme, method of conducting and the materials to be used.

3.4 Statistical Analysis

Data was analysed using IBM Statistical Package (SPSS) Version 21. Descriptive frequency analysis was used to study the effects of the interactive school health children (IPoPS) in the intervention group. In this analysis, the total marks were converted into a percentage in order to be fed into the knowledge scoring scale adopted from a previous study by Swe & Bhardwaj, (2012). The students' marks were translated into a knowledge score before being grouped into three levels consisting of poor knowledge level, fair knowledge level and good knowledge level. Poor knowledge level was decided as a score of less than 33.3% of the individual total scores. Fair knowledge level was decided as score of 33.3% or higher but less than 66.6% of the individual total scores. Good knowledge level was decided as score more than or equal to 66.6% of the individual total scores.

4.0 Result

4.1 Demographic data

Table 4.1 shows the socio-demographic characteristics of the respondents. As shown in this table, there are 27 (45%) and 34 (56.7%) male respondents, and 33 (55%) and 26 (43.3%) female respondents for intervention and control groups respectively. All the respondents in the intervention and control group have similar age, which are divided into three age groups. Respondents who are 10 years old numbered 20 (33.3%) and 20 (33.3) for both intervention and control groups. For 11 years old, there are 21 (35%) and 20 (33.3%) for intervention and control groups. Lastly, there are 19 (31.7%) and 20 (33.3%) respondents who are 12 years old in the intervention and control groups. The majority of fathers' or guardians' were employed in the private sectors with 28 (46.7%) and 37 (61.7%) for the intervention and control groups, respectively, while only 15 (25%) and 8 (13.3%) worked in government sectors and a further 15 (25%) and 13 (21.7%) from the intervention and control groups are self-employed. Another 2 (3.3%) and 2 (3.3) from both intervention and control groups are not working. Furthermore, the respondents' mothers or guardians were mostly not working for both intervention, 30 (50%), and control groups, 30 (50%). 10 (16.7%) and 9 (15%) are working in government sectors for intervention and control groups, respectively. Another 4 (6.7%) and 15 (25%) are working in private sectors for both intervention and control groups. 16 (26.7%) and 6 (10%) are self-employed for intervention and control groups. From the results, the intervention and control groups were similar with respect to gender, age, fathers' or guardians' occupation and mothers' or guardians' occupation as the results showed a p-value > 0.005.

Table 4 1. Socio-Demographic Characteristics of the Respondent

Items	Intervention	Control	<i>p</i> -value
	N(%)	N(%)	
Gender			
Male	27 (45.0)	34 (56.7)	0.571a
Female	33 (55.0)	26 (43.3)	
Age			
10 years	20 (33.3)	20 (33.3)	0.527a
11 years	21 (35.0)	20 (33.3)	
12 years	19 (31.7)	20 (33.3)	
Father's/Guardian's Occupation	, ,	, ,	
Government	15 (25.0)	8 (13.3)	0.443a
Private	28 (46.7)	37 (61.7)	

Self Employed	15 (25.0)	13 (21.7)	
Not working	2 (3.3)	2 (2.4)	
Mother's/Guardian's Occupation			
Government	10 (16.7)	9 (15.0)	0.079ª
Private	4 (6.7)	15 (25.0)	
Self Employed	16 (26.7)	6 (10.0)	
Not working	30 (50.00	30 (50.0)	

^aPearson Chi-square

4.2 General Knowledge on Cigarette, knowledge on dangers of smoking and knowledge on bans of smoking

Table 4.2 shows the percentage level of general knowledge for the intervention and control groups. For the intervention group, 9 (15%) have poor knowledge compared to 3 (5%) for the control group before the interactive programme. However, after the interactive programme the number of respondents who have poor level of knowledge decreased to 2 (3.3%) for the intervention group but increased to 7 (11.7%) for the control group. Meanwhile, respondents with a fair level of knowledge in the intervention group were 47 (78.3%) and 38 (63.3%) for control group before the interactive programme and differed after the intervention programme with 48 (80%) and 31 (51.7%) for the intervention and control groups, respectively. Respondents with a good level of knowledge before the intervention programme for the intervention group were 4 (6.7%) and 19(31.7%) for the control group and differed after the intervention programme with 10 (16.7%) and 22 (36.7%) for intervention and control groups, respectively. Table 4.2 shows the comparison of the percentage levels of knowledge between the intervention and control groups pre- and post-intervention programme. For the intervention group, the level of knowledge increased from poor knowledge to fair and good knowledge after the intervention. However, the control group's level of knowledge for poor knowledge increased after the 2 weeks' follow up and also saw a decrease in the amount of respondents with fair knowledge but saw an increase of respondents with good knowledge after the 2 weeks' follow up. The results proved that the interactive programme had an influence in increasing level of general knowledge on cigarettes among school children.

Table 4.3 shows the percentage level of knowledge on the dangers of smoking for the intervention and control groups. The minimal level of knowledge for both groups was a fair level of knowledge with 36 (60%) respondents for the intervention group and 46 (76.7%) for the control group before the interactive programme and differed after the intervention programme with 34 (56.7%) and 31 (51.7%) for the intervention and control groups, respectively. Respondents with a good level of knowledge before the intervention programme for the intervention group was 24 (40%) and 14 (23.3%) for the control group, which saw an increase after the intervention programme with 26 (43.3%) and 29 (48.3%) for intervention and control groups. For both intervention and control group, the average level of knowledge increased from fair knowledge to good knowledge after the intervention. However, the intervention group's level of knowledge percentage was lower compared to the control group. This result shows that the intervention programme was effective for the intervention group. Although control group did not receive any intervention package, the result shows that the level of knowledge among students increased after the 2 weeks' follow up. The table showed that the intervention programme had a good effect in increasing the level of knowledge on the dangers of smoking among school children. For the control group, the intervention package may have increased their general level of knowledge on the dangers of smoking had it been given to them.

Table 4.4 shows the percentage level of knowledge on the ban of smoking for the intervention and control groups. The minimal level of knowledge for both intervention and control group was a fair level of knowledge which was 4 (6.75) for the intervention group and 11 (18.3%) for the control group before the intervention programme and differed after intervention with 3 (5%) and 9 (15%) for the intervention and control groups, respectively. Respondents with a good level of knowledge before the intervention programme for the intervention group was 56 (93.3%) and 49 (81.7%) for the control group and saw an increase after the intervention programme to 57 (95%) and 51 (85%) for the intervention and control groups, respectively. Table 4.4 also shows the comparison of the percentage level of knowledge between the intervention and control groups pre- and post-intervention programme. For both intervention and control groups, the level of knowledge increased from a fair level of knowledge to good after the intervention. An interactive programme was effective for the intervention group despite the intervention group's level of knowledge percentage was lower compared to the control group. The table showed that the interactive programme had a good effect in increasing the level of knowledge on the ban of smoking among school children. For the control group, the intervention package may have increased their general level of knowledge on the ban of smoking had it been given to them.

Table 4.2. Comparison on Score of General Knowledge on Cigarette at Pre Intervention and Post Intervention

GROUP		LEVEL OF KNOWLEDGE (%)					
		N	Poor <33.3%	Fair 33.3% ≤ 66.6%	Good ≥66.6%	TOTAL	
Intervention	Pre	60	9 (15%)	47 (78.3%)	4 (6.7%)	60 (100%)	
	Post	60	2 (3.3%)	48 (80%)	10 (16.7%)	60 (100%)	
Control	Pre	60	3 (5.0%)	38 (63.3%)	19 (31.7)	60 (100%)	
	Post	60	7 (11.7%)	31 (51.7%)	22 (36.7%)	60 (100%)	

Table 4.3. Comparison on Score of the Knowledge on Dangers of Smoking at Pre Intervention and Post Intervention

LEVEL OF KNOWLEDGE (%)

== 1 == 0.1 11.1011=== 0 = (7.0)							
GROUP		N	Poor <33.3%	Fair 33.3% ≤ 66.6%	Good ≥66.6%	TOTAL	
Intervention	Pre	60	0	36 (60.0%)	24 (40.0%)	60 (100%)	
	Post	60	0	34 (56.7%)	26 (43.3%)	60 (100%)	
Control	Pre	60	0	46 (76.7%)	14 (23.3%))	60 (100%)	
	Post	60	0	31 (51.7%)	29 (48.3%)	60 (100%)	

Table 4.4. Comparison on score of the knowledge on ban of smoking at pre intervention and post intervention

GROUP		N L	EVEL OF KNO Poor <33.3%	WLEDGE (%) Fair 33.3% ≤ 66.6%	Good ≥66.6%	TOTAL
Intervention	Pre	60	0	4 (6.7%)	56 (93.3%)	60 (100%)
	Post	60	0	3 (5.0%)	57 (95.0%)	60 (100%)
Control	Pre	60	0	11 (18.3%)	49 (81.7%)	60 (100%)
	Post	60	0	9 (15.0%)	51 (85.0%)	60 (100%)

5.0 Discussion

5.1 Effect of an Interactive Programme towards the General Knowledge on Cigarette, knowledge on dangers of smoking and knowledge on bans of smoking

This is one of the first studies in Malaysia to report positive outcomes from an interactive programme for smoking prevention. The primary goal of the study was to identify the effectiveness of an interactive programme on the prevention of smoking (IPoPS) among school children. Results showed that the intervention was effective towards increasing the school children's general knowledge on cigarette, knowledge on the dangers of smoking and knowledge on the ban of smoking.

IPoPS was created to offer early interactive learning to a targeted age group deemed to be "early high risk" by the American Cancer Society (2008). Teaching IPoPS established positive outcomes, proving that IPoPS was effective in teaching school children the importance of smoking prevention through a short, interactive, cheerful, and fun program. The results demonstrated an increase of general knowledge on cigarette, knowledge on the dangers of smoking and knowledge on the ban of smoking after the intervention programme. The findings of this study is consistent with a study done by Smith et al. (2008) in the United States of America which found significant changes of knowledge after the introduction of an interactive programme.

The findings reported by Prokhorov et al. (2010) found that there is a significant change in knowledge that prevented children from smoking from an early age. The results were also consistent with a study conducted by Cremers et al. (2012) which discovered a significant change in knowledge on smoking for the children involved in the study. The IPoPS intervention had a positive effect on changing students' general knowledge on cigarette, knowledge on the dangers of smoking and knowledge on the ban of smoking among participants after the two weeks' follow-up. An interesting finding was an increase in general knowledge among the students who did not receive the IPoPS programme. If the IPoPS programme was introduced to the control group, the results would be much better than the current results.

6.0 Conclusion

This pilot study shows that the interactive programme on the prevention of smoking (IPoPS) among school children could improve the knowledge regarding tobacco, the dangers of smoking and the ban of smoking. Furthermore, the IPoPS programme has a fun and interactive approach which interests school children, getting them to give more attention to learn and understand the dangerous effects of smoking and tobacco use. The IPoPS programme enables children to build up the skill of decision making from a young age. This IPoPS programme could be implemented in Malaysia as part of a health programme in the school setting. However, further studies are suggested to be implemented in changing the perceptions and attitudes of the children towards tobacco use.

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