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Outlines of Presentation

 Briefly describe the harmful effects of smoking and the smoking prevalence in Hong Kong

 Describe a RCT on promoting smoking cessation among people attending emergency departments

7 million

The health consequences causally linked to smoking



Source: USDHHS 2004, 2006, 2012.

Note: The condition in **red** is a new disease that has been causally linked to smoking in this report in 2014.

Big Risk

Half (50%) of smokers who continue to smoke will die prematurely





World Health Organization

(*Peto, et al, 1994*) (*WHO, 2005*)



If smoking starts at a young age...

2/3

will be killed



Smoking Prevalence in Hong Kong over the past 30 Years



Smoking Prevalence in Hong Kong over the past 30 Years



- Raising tobacco tax
- Introducing legislation
- Law enforcement
- Anti-smoking campaigns

615,000 daily smokers

39







2 million people attend a year

A





68%





Potential barriers to provide smoking cessation in hospitals

- Very busy clinical settings in Hong Kong;
- Lack of time, training and confidence;
- smokers are too impatient to undergo a long intervention;
- Some smokers are reluctant to participate for fear that they might miss or experience delays in their medical consultation

Strategies 1: A brief interventions using the AWARD model

Refer smokers to a smoking cessation clinic or hotline

I'm a Quitter

Do it

again

Advise to quit or reduce smoking

Warn about the high risk of smoking

Ask about smoking history

Strategies 2: Self-determination Intervention for Smoking Cessation (Immediate or Progressive)



Aims of the Study

Kong

To test the effectiveness of using a brief, selfdetermination intervention on smoking cessation (immediate or progressive) for smokers attending AEDs.

Sampling Method





Inclusion criteria

- □ aged 18 years or above
- □ triaged as semi-urgent or non-urgent
- Current smokers, either occasional or daily and
- express a willingness to quit smoking
- **Exclusion criteria**
- poor cognitive state or mental illness and
- participation in other smoking cessation programmes or services.

Primary Outcome

- biochemically validated abstinence at 6 months
 Secondary Outcomes
 - biochemically validated abstinence at 12 months
 - self-reported 7-day point prevalence of abstinence at 6 and 12 months
 - self-reported reduction of ≥ 50% in cigarette consumption at 6 and 12 months
 - self-efficacy against tobacco at 6 and 12 month
 - quality of life at 6 and 12 months



Busy schedule







'placebo' Intervention
 on increasing physical
 activity and fruit and
 vegetable intake.



Results

6 months	Intervention group	Control group	171.541	
	(<i>N</i> = 787)	(<i>N</i> = 784)	Odds ratio (95% CI)	р
Self-reported abstinence		1.19	1. 1. 1. 1. 1. 1.	2
7-day PP (CC)	96 (16.8)	71 (14.3)	1.207 (0.865 – 1.685)	.269
7-day (ITT)	96 (12.2)	71 (9.1)	1.395 (1.009 – 1.929)	.044*
Self-reported smoking reduction				
>50% (CC)	121 (21.2)	123 (24.8)	0.813 (0.611 – 1.083)	.157
>50% (ITT)	121 (15.4)	123 (15.7)	0.976 (0.743 – 1.283)	.864
>50% + 7-day PP (CC)	217 (38.0)	194 (39.2)	0.912 (0.713 – 1.167)	.463
>50% + 7-day PP (ITT)	217 (27.6)	194 (24.7)	1.158 (0.924 – 1.450)	.202
Validated abstinence				
Validated quit rate (CC)	53 (9.3)	22 (4.4)	2.200 (1.318 - 3.672)	.003**
Validated quit rate (ITT)	53 (6.7)	22 (2.8)	2.501 (1.506 - 4.154)	<.001***

* Significant at p < .05; ** significant at p < .01; *** significant at p < .001.

Results

	Intervention group	Control group		
12 months	(<i>N</i> =715) ^a	(<i>N</i> =713) ^a	Odds ratio (95% CI)	р
Self-reported abstinence		2-10-11		
7-day PP (CC)	94 (19.3)	57 (13.9)	1.473 (1.029 – 2.110)	.034*
7-day (ITT)	94 (13.1)	57 (8.0)	1.742 (1.232 – 2.464)	.002**
Self-reported smoking reduction				
>50% (CC)	124 (25.4)	93 (22.7)	1.158 (0.851 – 1.575)	.352
>50% (ITT)	124 (17.3)	93 (13.0)	1.399 (1.045 – 1.872)	.024*
>50% + 7-day PP (CC)	218 (44.7)	150 (36.7)	1.394 (1.065 – 1.824)	.002**
>50% + 7-day PP (ITT)	218 (30.5)	150 (21.0)	1.646 (1.295 – 2.094)	<.001***
Validated abstinence				
Validated quit rate (CC)	45 (9.2)	23 (5.6)	1.705 (1.013 – 2.870)	.045*
Validated quit rate (ITT)	45 (6.3)	23 (3.2)	2.015 (1.206 - 3.367)	.008**

* Significant at p < .05; ** significant at p < .01; *** significant at p < .001.

Note ^a Excluding the subjects who are undue to follow-up.



- Medical attention at AEDs of smokers who are in physical discomfort is a "golden opportunity" to promote smoking cessation
- The brief, self-determination intervention was shown to be effective in promoting smoking cessation for people attending emergency departments. Such intervention should therefore be a more cost-effective and sustainable approach to helping smokers quit smoking, and consequently may save more lives.

Thank You HONG KM

1

11