

# Virtual 2020

**EUROPEAN ASSOCIATION OF FACULTIES OF PHARMACY** 

## INTRODUCTION

In Malaysia, the popularity of electronic cigarettes has increased gradually over the last years. E-cigarette were created as an alternative for traditional cigarettes, but their safety and efficacy profile are still unclear. In the mid of 2014, fatal cases of ecigarettes made headlines.

The role of community pharmacists in the general health care system is expanding. From a product-oriented to a patientcentered role, a shift from a businessfocused to a health-focused mindset, and active participation in health promotion. It is important that community pharmacists must be aware on the safety and effectiveness of e-cigarettes as a smoking cessation tool.

# AIM/S

This study was aimed to determine the knowledge, attitude and perception of community pharmacists towards ecigarettes.

- a. To determine the demographic profile of the community pharmacists.
- b. To determine the awareness of the community pharmacist on the use of e-cigarette in Selangor.
- c. To determine the perception of the community pharmacist on the safety and efficacy of e-cigarette.

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### METHOD

A quantitative study design engaging community pharmacists in Selangor, Malaysia was done. A pilot study using the adopted questionnaire was conducted for content and face validation after the ethics approval by the university research committee. The community pharmacists were selected by convenience sampling. Ninety-seven registered Malaysian community pharmacists within the vicinity of Puchong, Shah Alam, Subang Jaya, Puchong Jaya and Klang were the respondents. Data collection was achieved using paper-based survey questionnaire. The questions employed were close and open ended. Respondents were asked to score statements on a five-point scale ranging from "most important" to "least important" using Likert scale. Questionnaires were in written in English. Data was explored prior to analysis in order to determine the missing values and the distribution of variables. Descriptive statistics were utilized for the data analysis and the results were presented using tables, pie, and bar charts.

### RESULTS

Table 1 showed that 69 respondents were female and 28 male. About 68.04% of them worked in the community pharmacy within 5 years after the registration and only 5.15% reached 20 years. Table 2 depicted that 78.35% were aware that utilization of e-cigarettes escalated in Selangor for the last five years and about 62.9% counselled patients concerning its usage. Meanwhile, more or less than a quarter of respondents received complaints from patients suffering cough, dry mouth, sore throat, and headache. Table 3 presented that 28.9% of the community pharmacists perceived that (family and support group) as "very effective" smoking cessation tool whereas only 1.0% considered e-cigarettes and sudden withdrawal as such.

Fig 1 showed that majority of the respondents (75.3%) disagreed that ecigarettes do not cause any adverse effect. However, most of them agreed that informative campaign should be promoted to heighten awareness on the benefits and risks of using e-cigarettes.

ronic Cigarettes in Selangor
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	nity pharmacist			Number (n)	Percentage (%)
	Number (n)	Percentage (%)	Awareness on the reported use of e-		0,,,
ender			cigarettes in Selangor in the last five		
Male	28	28.87%	years.		
Female	69	71.13%	No Answer	2	2.1%
cation			Increased	76	78.35%
Puchong	25	25.77%	Decreased	2	2.1%
Shah Alam	45	46.39%	Do not Know	11	11.34%
Puchong Jaya	6	6.19%	Same as before	6	6.18%
Klang	11	11.34%	Pharmacists who talked to patients wh	0	
Subang Jaya	10	10.31%	use e-cigarettes	61	62.0.%
ears of practice (after registration		10.5170	Talked to patients Didn't talked to patients	61 36	62.9 % 37.1%
0-5	66	68.04%	Side effects of e-cigarette presented to		57.170
6-10	11	11.34%	the pharmacist		
11-15		8.25%	Cough	30	34.1%
	8		Dry mouth	28	31.8%
16-19	/	7.22%	Sore throat	20	22.7%
20	5	5.15%	Headache	10	11.4%
otal N=97			Total N=97		

	MTAC counselling		Family and support group		GP and pharmacist support		Classic NRTs (e.g. patch		E- cigarettes	
	n	%	n	%	n	%	n	%	n	%
Very effective	6.0	6.2	28	28.9	17	17.5	9	9.4	1	1.0
Effective	44	45.3	45	46.4	49	50.6	56	57.7	7	7.3
Moderately	33	34.0	22	22.6	27	27.8	31	31.9	43	44.3
Effective										
Totally	9	9.3	2	2.1	1	1.0	0	0	30	30.9
ineffective										
Unsure	5	5.1	0	0	3	3.1	1	1.0	16	16.5
Total	97	100	97	100	97	100	97	100	97	100
MTAC- Medication	Therany A	dhorong	o Clinic	NRT- nic	otine re	nlacomo	ont thor	anv: GD.	σοηρη	al practit

Adherence Clinic; NKT- nicotine replacement therapy: GP- general practitione

## CONCLUSION

This survey was conducted to gain insight into the perception of the community pharmacist regarding ecigarettes in terms of awareness, safety, and effectiveness. Smokers are likely to consult them for evidence-based advice about its use. Thus, educational intervention and evidence-based training for pharmacist is recommended.

### REFERENCES

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