Prevalence of smoking in Bahrain

Randah R Hamadeh, Klim McPherson, Richard Doll

Abstract

Objective To determine (a) the prevalence of smoking and its distribution by demographic characteristics in the general population of Bahrain; (b) the types and pattern of smoking; and (c) smoking trends.

Design Analysis of smoking and demographic questions from a 4.5% sample of households. The survey was conducted between September 1981 and February 1983. A two stage sampling design was used, the block being the first stage unit and the household the second stage unit.

Setting A national morbidity survey in Bahrain, Arabian Gulf.

Subjects A total of 9282 adults aged 15 and over.

Results The prevalence of smoking was 33.1% among men and 9.2% among women. Non-Bahraini men had the highest prevalence of smoking (40.4%) followed by Bahraini men (30.6%), Bahraini women (9.5%), and non-Bahraini women (7.9%). Cigarette smoking was the most popular type of smoking followed by the waterpipe. The latter was more prevalent among Bahraini women than men, but has begun to decrease in both sexes.

Conclusion The prevalence of smoking among men and women in Bahrain was lower than in most of the developed and developing countries. However, a secular trend of increasing cigarette smoking was seen.

Introduction

The state of Bahrain is an Arab Moslem independent state composed of an archipelago of 36 islands. It is located in the Arabian Gulf, with the Kingdom of Saudi Arabia to the west and Qatar to the east. The total population of Bahrain according to the 1981 census is 350 798. About two thirds of the population are Bahraini nationals and the remaining third are non-Bahraini residents, who are mostly Asians.¹

Data on the prevalence of smoking in the Arabian Gulf region are limited to special groups (M Yassin, unpublished data).²⁻⁷ Available evidence indicates that smoking is popular among physicians and other professionals,^{3,6} secondary school boys,^{4,7} and university students (M Yassin, unpublished data).^{2,5}

Population based figures on smoking in the Arabian Gulf are available only for Kuwait (NA Al-Naqeeb, unpublished data),⁸ where

51.8% of men and 12.1% of women aged 20 years and above are reported to smoke.⁸

The exact date of tobacco introduction to Bahrain is uncertain. However, it can be assumed that it was brought to Bahrain at the beginning of the eighteenth century, similar to Saudi Arabia and other countries in the region.⁹ All forms of tobacco are imported in Bahrain as there is no cultivation of tobacco or manufacture of tobacco products.

The objectives of this study were (a) to determine the prevalence of smoking and its distribution by demographic characteristics in the general population of Bahrain, (b) to determine the types and pattern of smoking, and (c) to study smoking trends.

Methods

A national morbidity survey based on a 4.5% sample of total households (58 798) in Bahrain was conducted between September 1981 and February 1983 by the Ministry of Health, with a response rate of 99.5%. The national morbidity survey is the first and only survey to be done in Bahrain and the Gulf States to date.

Bahrain is divided into 11 regions, 10 of which are inhabited. These regions in turn are divided into area blocks containing varying number of households.

A two stage sampling design was used, the block being the first stage unit and the household the second stage unit. At the first stage a stratified random sample of blocks was chosen using the regions as strata; in the second stage a systematic sample of households was chosen from the selected blocks. The blocks were selected with probability proportional to the number of households contained in them.¹⁰

At the time of designing the survey smoking was just one of the variables included and no special emphasis was given to it. Hence, smoking related questions (appendix) along with the others were put to the head of the household or eldest person in the presence of adult members of the family and were intended to identify current smokers in the household and their type and frequency of smoking. Data on ex-smokers, however, were not collected. Information on smoking was obtained for all the 4785 men and 4497 women who were aged 15 years and over. Cigarette smokers were considered to be regular light smokers if they smoked less than one packet a day and regular heavy smokers if they smoked one packet or more daily; otherwise they were classified as occasional smokers (less than one cigarette a day). Waterpipe smokers were classified as

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Table 1 Prevalence of smoking (%) by age, sex, and nationality in the national morbidity survey

Age (years)	Bahraini		Non-Bahraini		Total	
	Male (n = 3537)	Female (n = 3548)	Male (n = 1248)	Female (n = 949)	Male (n = 4785)	Female (n = 4497)
15-19	8.1	1.2	5.7	0.0	7.8	1.1
20-29	32.6	3.9	39.8	5.1	34.4	4.2
30-39	42.1	12.2	45.8	10.2	43.8	11.5
40-49	41.2	23.6	41.5	10.9	41.3	20.8
50-59	44.4	22.1	46.9	17.6	45.0	21.6
60-69	40.5	16.9	45.5	12.5	40.9	16.7
≥ 70	28.9	23.3	28.6	50.0	28.8	24.8
Total	30.6	9.5	40.4	7.9	33.1	9.2

Table 2 Numbers (percentages) of smokers in the national morbidity survey by type of smoking, sex, and nationality

Type of smoking	Bahraini		Non-Bahraini	
	Male	Female	Male	Female
Smoker:				
Cigarette	981 (27.7)	19 (0.5)	481 (38.5)	68 (7.2)
Waterpipe	69 (2.0)	315 (8.9)	4 (0.3)	5 (0.5)
Cigar or pipe	3 (0.1)	0 (0.0)	11 (0.9)	0 (0.0)
Mixed*	29 (0.8)	3 (0.1)	8 (0.6)	2 (0.2)
Non-smoker	2455 (69.4)	3211 (90.5)	744 (59.6)	874 (92.1)
Total	3537 (100.0)	3548 (100.0)	1248 (100.0)	949 (100.0)

* Only one was a cigarette and pipe smoker, the rest were cigarette and waterpipe smokers.

regular smokers if they smoked daily and as occasional smokers otherwise.

Trends in the prevalence of smoking for the past 40 years were extrapolated by using the data on prevalence and duration of smoking of current smokers and adjusting for unknown durations in each age group. It was assumed that the proportion of non-smokers in any age group in whom duration of smoking was unknown was equal to that of those who had known duration.

Results

The population distribution of those aged 15 years and over was similar in terms of age, sex, and nationality in the national morbidity survey and the 1981 census.

The prevalence of smoking at ages 15 years and over was 33.1% among men and 9.2% among women in Bahrain (table 1). The highest percentage was in non-Bahraini men overall (40.4%) and in those aged 50-59 years (46.9%). The percentage of Bahraini male and female smokers was 30.6% and 9.5%, respectively. The highest frequency of smoking for Bahraini men (44.4%) was in those aged 50-59 and for Bahraini females in those aged 40-49 (23.6%) and 70 and over (23.3%).

Table 2 shows that cigarette smoking including cigarettes mixed with other types of smoking was more prevalent among non-Bahraini men (39.2%), followed by Bahraini men (28.6%), non-Bahraini women (7.4%), and Bahraini women (0.6%).

Waterpipe smoking was more widespread among the Bahraini women (9.0%) than in the other groups. Pipe and cigar smoking were not common in Bahrain, especially among the Bahraini.

Forty four per cent of the cigarette smokers were regular light smokers (< 1 packet a day). A third of the Bahraini male smokers were heavy smokers (≥ 1 packet a day) compared with a fifth of the non-Bahraini male cigarette smokers. Half of the waterpipe smokers were regular (daily) smokers and the other half occasional (less than daily) smokers (table 3).

The majority of smokers started smoking in the age groups 10-19 years (43.3%) and 20-29 (44.5%). The age at starting smoking was unknown for 29.0% of the smokers (table 4). The average age at starting to smoke was similar for cigarette smokers (21.3 years) and for waterpipe smokers (23.3 years) in all groups except in Bahraini men, in whom the mean ages at starting were respectively 21.0 years and 31.0 years.

The data on duration of smoking were available for 78.4% of the cigarette and 38.2% of the waterpipe smokers. These showed that both cigarette and waterpipe smoking have been prevalent in Bahrain for at least the past 50 years. Throughout this period the prevalence of cigarette smoking was found to have increased in all age groups while the prevalence of waterpipe smoking decreased (table 5). In young women the prevalence of waterpipe smoking is decreasing, but in older women it has become more frequent. Cigarette smoking by women began only in the 1970s and is still very uncommon.

Table 3 Numbers (percentages) of cigarette and waterpipe smokers in the national morbidity survey by frequency of smoking, nationality, and sex

Frequency of smoking	Cigarette smokers				Waterpipe smokers			
	Bahraini		Non-Bahraini		Bahraini		Non-Bahraini	
	Male	Female	Male	Female	Male	Female	Male	Female
Non-smoker	2527 (71.4)	3526 (99.4)	759 (60.8)	879 (92.6)	3440 (97.2)	3230 (91.0)	1236 (99.0)	942 (99.3)
Smoker:								
Occasional	242 (6.8)	11 (0.3)	154 (12.3)	28 (3.0)	46 (1.3)	156 (4.4)	9 (0.7)	5 (0.5)
Regular light	441 (12.5)	2 (0.1)	231 (18.5)	31 (3.3)	51 (1.4)	160 (4.5)	3 (0.3)	2 (0.2)
Regular heavy	317 (9.0)	6 (0.2)	103 (8.3)	8 (0.8)	—	0 (0.0)	0 (0.0)	0 (0.0)
Undetermined	10 (0.3)	3 (0.1)	1 (0.1)	3 (0.3)	0 (0.0)	2 (0.1)	0 (0.0)	0 (0.0)
Total	3537 (100.0)	3548 (100.0)	1248 (100.0)	949 (100.0)	3537 (100.0)	3548 (100.0)	1248 (100.0)	949 (100.0)

Table 4 Numbers (percentages) of all smokers in the national morbidity survey by age and age at starting smoking

Age (years)	Age at starting smoking (years)				Total	% of smokers with age at starting smoking unknown
	10-19	20-29	30-39	≥ 40		
15-19	60 (100.0)	0 (0.0)	0 (0.0)	0 (0.0)	60 (100.0)	29.4
20-29	261 (60.4)	171 (39.6)	0 (0.0)	0 (0.0)	432 (100.0)	23.3
30-39	144 (38.2)	207 (54.9)	26 (6.9)	0 (0.0)	377 (100.0)	26.7
40-49	79 (28.4)	140 (50.4)	48 (17.3)	11 (4.0)	278 (100.0)	29.3
50-59	41 (24.3)	78 (46.2)	32 (18.9)	18 (10.7)	169 (100.0)	34.0
60-69	19 (25.7)	26 (35.1)	10 (13.5)	19 (25.7)	74 (100.0)	38.3
≥ 70	10 (34.5)	9 (31.0)	0 (0.0)	10 (34.5)	29 (100.0)	49.1
Total	614 (43.3)	631 (44.5)	116 (8.2)	58 (4.1)	1419 (100.0)	29.0

Table 5 Prevalence of smoking (%) among Bahraini men and women by type of smoking (1940-1980)

Age (years)	Men					Women				
	1980s	1970s	1960s	1950s	1940s	1980s	1970s	1960s	1950s	1940s
						<i>All types</i>				
20-29	32.6	32.6	29.0	25.0	12.7	3.9	10.4	16.2	16.2	14.1
30-39	42.1	38.1	36.3	26.1		12.2	20.7	19.9	16.9	
40-49	41.2	43.0	36.3			23.6	20.9	16.9		
50-59	44.4	38.8				21.9	16.9			
60-69	40.5					16.9				
						<i>Cigarettes</i>				
20-29	32.1	33.0	27.0	23.1	14.0	0.6	0.7	0.0	0.0	0.0
30-39	41.5	35.6	32.0	22.2		0.7	0.7	0.0	0.0	
40-49	38.6	37.0	28.0			1.4	0.0	0.0		
50-59	38.2	29.7				0.3	0.0			
60-69	30.9					0.0				
						<i>Waterpipe</i>				
20-29	1.0	0.5	2.8	0.0	3.6	3.4	9.7	14.8	16.5	0.0
30-39	1.0	2.8	5.7	8.1		11.7	19.0	20.3	16.9	
40-49	2.8	7.7	11.4			22.3	20.3	16.9		
50-59	8.3	11.4				21.5	16.9			
60-69	12.7					19.9				

About 80% of the cigarette smokers provided data at interview on the brand smoked. Dunhill, Rothmans, Kent, Silk Cut, and Marlboro King Size, were the five brands most commonly smoked. Analysis of cigarette brand smoked by age showed that Dunhill was the most popular brand in all age groups. Rothmans and Silk Cut, however, were less favoured by the young in comparison with Kent and Marlboro. Marlboro was the most favoured brand among those aged 15-19 years.

Single men had a lower prevalence of smoking (12.9%) than all people who had ever been married (23.1-29.4%). The prevalence of smoking among the university degree holders (27.7%) was almost equal to that of the illiterate (26.2%). The proportion of smokers was lowest among those with an intermediate (15.6%) and secondary (15.1%) education. Income support recipients (43.5%) and labourers (43.0%) had a higher prevalence of smoking than professionals (26.4%) and clerical workers (24.9%).

Discussion

The prevalence of smoking in men and women in Bahrain is generally lower than that in their counterparts in many developed¹¹ and developing countries (M Khlal and HK Armenian, unpublished report).^{8,12} The proportion of adult male cigarette smokers in Bahrain is 31.3% and 37.6% in those aged 15 and above and 20 and above, respectively. The corresponding figures in the United Kingdom,¹³ Australia,¹⁴ and Canada¹⁵ in the early 1980s in

those aged 15 and above ranged from 37.0% to 41.0%; those in Lebanon (M Khlal and HK Armenian, unpublished report), Kuwait,⁸ and Japan¹⁶ ranged from 46.2% to 70.2% in people of 20 and over. However, in the United States¹⁷ the figure (38.0%) is almost equal to that of Bahrain (37.6%). On the other hand, the proportion of female smokers in Bahrain is much lower than that in industrial countries apart from Japan.¹³⁻¹⁷

However, the prevalence of smoking among females in Bahrain exceeds that of most non-Arab developing countries that have available data but is lower than the rate for Arab females (M Khlal and HK Armenian, unpublished report).^{8,12}

A comparison with the smoking rates of Kuwait (NA Al-Naqeeb, unpublished data),⁸ a country with similar religious, ethnic, and cultural habits, suggests that the prevalence of smoking is lower in Bahrain. Among those aged 20 years and above the prevalence of smoking in males of Bahrain (39.4%) is lower than that of their Kuwaiti counterparts (51.8%), in spite of the fact that the Kuwaiti data were restricted to cigarette smoking only. The proportion of female smokers in that age group is almost similar. However, a large difference results when cigarette smoking alone is considered. The percentage of female cigarette smokers aged 20 years and above in Bahrain drops to 2.4% compared with 12.1% in Kuwait. Further analysis by nationality and smoking prevalence between the two countries shows that smoking is more prevalent in Kuwait (NA Al-Naqeeb, unpublished data).

particularly among females. The proportion of cigarette smokers in those aged 20 and above is 0.8% in Bahraini females compared with 7.5% in Kuwaiti females. The corresponding percentages among males are 35.8% and 42.7%.

The difference between the prevalence of smoking in Bahrain and in Kuwait may, however, be due to underestimation in the Bahrain data because of the method used to obtain data. The head of the household was usually the interviewee in the Bahrain study and the head might not mention a female cigarette smoker or a young male smoker because of its negative social connotation.

Moreover, the interviewee might not be aware that a female member of the family smokes as she would do so in private. The Kuwaiti data on the other hand were based on a personal interview as part of a cross sectional study.⁸

The proportion of smokers who started smoking during their teenage (36.6%) is lower than that reported for Egypt (52.9%)¹⁸ and Lebanon (69.0%).¹⁹

From the data on duration of smoking, it is evident that cigarette smoking has been practised among males in Bahrain for over 50 years. It is possible that it was imported into Bahrain shortly after being taken up in developed countries at the turn of the twentieth century.²⁰⁻²² On the other hand, cigarette smoking by Bahraini females was delayed until the 1970s. In contrast, waterpipe smoking has been popular in the country much longer than cigarettes, as tobacco smoking in waterpipes was probably practised as early as the eighteenth century in Bahrain as in neighbouring countries.^{22,23}

The prevalence of smoking has been almost stable in all age groups in Bahrain for the past 50 years. But further analysis by type of smoking shows that smoking of cigarettes has increased and that of waterpipes has decreased, particularly in the young. Because data on ex-smokers were not collected, the trend in cigarette smoking has to be interpreted cautiously. However, there is no reason to believe that the proportion of ex-smokers varied during this period of time as serious efforts to educate the public of the harmful effects of smoking and legislative measures to control smoking only began in 1979.¹⁰

It is worth noting that Dunhill, although the leading brand smoked in Bahrain, is not among the five most popular brands in most of the countries that have published data, apart from Cyprus.²⁴ However, Rothmans, Silk Cut, and Marlboro are also among the most preferred brands in industrial countries.^{25,26}

The relatively high proportion of smokers among the university degree holders (27.7%) and its similarity to that of the illiterate (26.2%) is contrary to what has been reported for industrialised countries.^{26,27} Smoking among professionals was found to be 26.4% in contrast to the results of a recent study on smoking among physicians, journalists, and teachers in Bahrain where the proportions of smokers were 60.1%, 77.4%, and 80.6%,

respectively.⁶ However, the response rate in the latter study was only 49.2%.

We conclude that about a third of the men in Bahrain smoke and that there has been a secular trend of increasing cigarette smoking. Knowledge of the risks associated with smoking has not yet brought about any decrease in its prevalence in Bahrain.

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Appendix

Smoking related questions in the national morbidity survey

- 1 Does anyone in this household smoke cigarettes?
If yes: How many cigarettes does he/she smoke per day?
What brand of cigarettes does he/she smoke?
At what age did he/she start smoking?
- 2 Does anyone in this household smoke hubble bubble [waterpipe]?
If yes: How much does he/she smoke per day?
At what age did he/she start smoking?

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Translations of abstract

La prévalence du tabagisme au Bahreïn

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Résumé

Objectif: Déterminer (a) la prévalence du tabagisme et sa répartition par caractéristiques démographiques dans la population globale du Bahreïn; (b) les types et les modèles de consommation; et (c) les tendances tabagiques.

Méthode: Analyse des habitudes tabagiques et des facteurs démographiques d'un échantillon de 4,5 % de ménages. L'étude a été réalisée entre septembre 1981 et février 1983. L'échantillonnage a été fait en deux stades, le groupe étant l'unité du premier stade et le ménage l'unité du deuxième stade.

Cadre: Une étude nationale sur la morbidité au Bahreïn, Golfe d'Arabie.

Sujets: 9282 adultes âgés de 15 ans et plus.

Résultats: La prévalence du tabagisme était de 33,1 % chez les hommes et de 9,2 % chez les femmes. Le pourcentage de fumeurs était le plus élevé chez les hommes non-originaux du Bahreïn (40,4 %), suivi par les hommes Bahreïni (30,6 %), les femmes Bahreïni (9,5 %) et les femmes non-originaux de Bahreïn (7,9 %). La consommation de cigarettes était la forme la plus populaire du tabagisme suivi par la pipe à eau. Celle-ci était plus répandue parmi les femmes Bahreïni que parmi les hommes mais elle a toutefois commencé à diminuer parmi les deux sexes.

Conclusion: La prévalence du tabagisme parmi les hommes et les femmes au Bahreïn était moins élevée que dans la plupart des pays développés ou en voie de développement. Cependant, on constate que la consommation de cigarettes a tendance à augmenter.

Prevalencia de tabaquismo en Bahrein

Randah R Hamadeh *et al*

Resumen

Objetivo: Determinar (a) la prevalencia del tabaquismo en la población general de Bahrein y su distribución según características demográficas; (b) los tipos y la modalidad del tabaquismo; y (c) las tendencias de tabaquismo.

Diseño: Análisis del tabaquismo y preguntas demográficas a partir de una muestra del 4,5 % de los hogares. La encuesta se realizó entre septiembre de 1981 y febrero de 1983. Se empleó un diseño de muestreo en dos etapas: la manzana de casas se consideró como unidad de la primera etapa y el hogar, como unidad de la segunda.

Marco: Encuesta nacional de morbilidad en Bahrein, Golfo de Arabia.

Sujetos: Un total de 9282 adultos de 15 y más años de edad.

Resultados: La prevalencia del tabaquismo fue de 33,1 % entre los hombres y 9,2 % entre las mujeres. La prevalencia más alta (40,4 %) se observó en los hombres no originarios de Bahrein, seguida por las correspondientes a los hombres nacionales de Bahrein (30,6 %), las mujeres de Bahrein (9,5 %) y las mujeres no oriundas de Bahrein (7,9 %). El fumar cigarrillos fue el tipo más popular de tabaquismo, seguido por la pipa. La prevalencia de esta última fue más alta entre las mujeres de Bahrein que entre los hombres, si bien su uso por los dos sexos ha comenzado a disminuir.

Conclusión: La prevalencia de tabaquismo en los hombres y mujeres de Bahrein fue menor que en la mayoría de los países desarrollados y en vías de desarrollo. Sin embargo, se observa una tendencia al creciente consumo de cigarrillos.

巴林的吸烟率

兰德·汉姆德

研究目的: 确定 1) 在巴林的不同人群中吸烟率的分布情况; 2) 常见的烟草种类和吸烟方式; 3) 吸烟率的变化趋势。

研究设计: 调查于 1981 年 9 月至 1983 年 2 月之间进行, 本研究采用二阶段抽样调查设计, 第一阶段的基本单元是街区, 第二阶段的基本单元是家庭, 共有 4.5% 的家庭被调查, 调查内容包括吸烟情况及某些人口学问题。

抽样范围: 巴林全国疾病发病率调查时所规定的人群

研究对象: 9282 名 15 岁以上的成年人

研究结果: 男性吸烟率为 33.1%, 而女性吸烟率为 9.2%, 非巴林籍男性吸烟率最高 (40.4%), 其次巴林男性 (30.6%) 巴林女性 (9.5%) 非巴林籍女性 (7.9%)。烟草种类主要为卷烟, 其次为水烟。在巴林, 女性吸烟较男性更为普遍。但近年来, 吸水烟的人越来越少。

结论: 巴林男女吸烟率低于多数的发达和不发达国家的吸烟率, 但是巴林的吸烟率逐年呈上升趋势。(中国健康教育研究所烟草控制与疾病预防研究室 潘学雷译)