# Khat use and perceived health problems among African migrants in Australia: an exploratory study

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#### **Abstract**

**Background:** The chronic use of khat, a plant with psychostimulant properties, has been associated with physical and mental health problems. Previous research found that non-khat users were more likely than khat users to perceive its use to be associated with poor health.

**Aims:** We aimed to identify differences in the perception of specific khat-associated health problems between khat users and non-users.

**Methods:** In 2012, 133 adults (≥ 18 years) from African migrant communities in 4 state capital cities in Australia completed questionnaires to ascertain their perception of whether specific health problems were associated with khat use. Multivariable log-linked Poisson regression was used to compare the perceptions of the 2 groups and identify differences, adjusting for sociodemographic factors, tobacco use and years living in Australia.

**Results:** Overall, 58 (44%) and 75 (56%) participants reported current khat use and no use respectively. Adjusted log-linked Poisson regression showed that people who use khat were less likely than non-users to perceive certain health and related problems were associated with khat use, including, poor health in general [prevalence risk ratio (PRR) = 0.86; 95% CI: 0.75, 1.00]; laziness (PRR = 0.86; 95% CI: 0.75, 0.99); stomach and throat problems (PRR = 0.83; 95% CI: 0.72, 0.96); and teeth, gum and mouth problems (PRR = 0.81; 95% CI: 0.67, 0.99).

**Conclusions:** Khat users are less likely to perceive use being associated with health problems than non-users. Providing information on the health problems associated with khat use may be an important component of health promotion strategies and interventions aimed at minimising khat-related harm.

Keywords: khat use/non-use, health perceptions, African migrant communities, Australia

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#### Introduction

Khat (*Catha edulis*), is a plant with psychostimulant properties (1,2), the leaves have been traditionally chewed by people in the horn of Africa and the Arabian Peninsula. Recent migration has led to its use in other countries (3,4), including Australia (5). Data regarding khat use is not routinely collected in Australia and there is little robust evidence about the rates of use internationally, with estimates suggesting that around 20 million people use khat globally (6,7). Despite a lack of prevalence data in the Australian community, there are clear concerns among members of the East-African diaspora in Australia about the health and social impacts associated with khat use (8).

There is increasing evidence of a range of physical and mental health conditions associated with chronic khat use (9). These include heart disease (10–12), digestive system problems (13), hepatic disease (14), depression (15), post-traumatic stress disorder (16) and psychosis (16,17). Chronic khat use has been positively associated with both initiating and increased tobacco use (18), using alcohol

and other drugs (4) and other poor outcomes such as a decrease in quality of life and academic functioning (19). Recent findings also suggest a high dependence liability for khat (5,20), with withdrawal symptoms reported in the period after cessation (21). Additionally, people who use khat can develop a khat-use disorder that meets DSM-V criteria (22) for substance use disorder (19). Thus chronic khat use is a potential public health concern that warrants further investigation in order to identify options for intervention.

The traditional context of khat use has been in cultural and religious ceremonies (23) and in facilitating community dispute resolution (24). Furthermore, it is perceived as socially acceptable in migrant groups with northern African and Yemeni heritage living in the United Kingdom (25) and among the Somali community in Australia (26). Despite this, prior research has identified that people who use khat and those close to them have perceived physical and mental health problems associated with using khat, including gastrointestinal problems, sleeping problems, hallucination and anxiety

(8,27). Additionally, members of khat-using communities have perceived that khat use is related to negative social and family consequences, including neglect of social responsibilities, family breakdown and family violence (8,28).

To date, 2 studies have looked at the differences in perception of health problems associated with khat use between people who use khat and those who do not (27,29). An Ethiopian study has included a limited analysis of the differences in the perceived health problems associated with khat use between people who use khat and those who do not (27). Bivariate analysis found that participants who did not perceive a negative impact on health from khat use were 5 times more likely to use khat compared to those who perceived a negative impact on health (27); however, the study did not disaggregate by which specific health problems were perceived as being associated with khat use. Raising awareness and modifying the perception of specific khat-related health problems in people who use khat may be a crucial step towards intervention and prevention of harm.

In Yemen, Wedegaertner et al. investigated the differences in perception between people who did and did not use khat with respect to whether they perceived that it was associated with a range of social, psychosocial, physical and mental health-related outcomes (29). Their main findings were that males identified more strongly with khat use than females, females cited the negative impact on health and self-esteem among the family as major concerns, and male abstainers were more likely than males who used khat to believe that khat use causes social problems.

Previous research has demonstrated an inverse relationship between risk or harm perception associated with using a particular substance and the actual use of that substance, particularly for smoking tobacco through a hookah (30,31) and using cannabis (32). An increased perception of risk has also been found to increase the intention to quit smoking tobacco (33). Thus, increased understanding of the difference in perception between those who use khat and those who do not may provide an initial framework for the development of interventions aimed at reducing khat-related harm.

To build on the understanding between drug use and perception of drug use in relation to khat, we conducted a study in a developed-country setting that investigated the differences in the perception of khat use being associated with health problems between people who do and people who do not use khat who were members of a diaspora where khat use is prevalent. We hypothesised that overall people who use khat will be less likely to perceive a positive association between khat use and health problems than people who do not use khat. Accordingly, we aimed to: describe the perceptions of physical and mental health and social problems for people who use khat and abstainer members of migrant communities in Australia; estimate the association between current khat use and perceived physical and mental health and social problems; and identify potential targets to inform

on harm minimization and educational interventions for people who use khat and those living in communities where khat use occurs.

#### **Methods**

#### Study design and participants

This study is part of a broader study which utilised Rapid Assessment Methodology (RAM) to examine khat use in Australia. The study consulted with key informants and health providers and used focus groups as well as the questionnaire methodology on which the current data is based. Rapid Assessment Methodology has been used to investigate psychostimulants previously in diverse social and cultural settings, having been asserted as effective (34,35).

The study design and participant recruitment have been detailed elsewhere (5). Briefly, participants were recruited through African community health liaison officers and snowball sampling. The participants were 133 adults (≥ 18 years) from African migrant communities in 4 state capital cities in Australia (Brisbane, Melbourne, Adelaide and Perth) recruited for the study between 1 April and 1 June 2012. There were 58 (43.6%) participants who reported current khat use, whilst the remaining 75 (56.4%) reported not using khat currently.

The Curtin University Human Research Ethics Committee approved the study, and community consultation showed support for the study methods.

#### Measures

Based on a review of the literature, 2 questionnaires were developed in English to identify potential health problems associated with khat use. One was developed for people currently using khat, with the other for abstainers. Regardless of their self-reported khat user status, each participant answered identical questions to assess their characteristics across a number of domains, including sociodemographic, alcohol and other drug use, and their perception of the impact of khat use on a range of physical and mental health conditions. Participants were asked to use a 5-point Likert scale to endorse whether they believed using khat was associated with specific health conditions that have been associated with khat use in the literature. Their responses were collapsed dichotomously with agree/strongly agree responses coded as an endorsement and all other responses (strongly disagree/disagree/neutral) coded as not endorsing the proposed effect of khat use on each specified health outcome. People who reported not currently using khat were also asked if they had used in the past. The questionnaires were translated into Amharic, Arabic, Somali and Swahili, the languages of the main geographic regions where khat is used. The relevant questionnaire was administered to participants based upon their current khat user status.

#### Statistical methods

Descriptive statistics were calculated for all measures. Fisher's exact test was used to compare differences be-

tween the khat user and abstainer groups for dichotomous and categorical outcomes. An independent samples t-test was used to compare time spent in Australia between these groups. Age was included in the questionnaire as a 4-category variable. In univariate analyses, age was analysed as a 4-category variable as well as a dichotomous variable ( $\leq$  35 and > 35 years determined by reference to evidence suggesting that drug use behaviour changes by this age (36) and the practical constraints of the categories used to collect the data) to determine which was the most parsimonious format to be used for regression analyses.

Modified log-linked Poisson regression with robust error variance was used to model the association between khat use status and attitudes towards the health impact of khat use, as previously recommended (37). This valid alternative to logistic regression for modelling binary outcomes in cross-sectional studies (38) estimates relative risk instead of an odds ratio and, unlike logistic regression, is not subject to bias when the outcome is rare or exceedingly common (39). The adjusted model controlled for sex, age (as a 4-category variable), employment status, daily tobacco use and total years in Australia.

To test if close contact (i.e. in social or family settings) with people who use khat affects the perception of khat-related harms, we conducted subgroup analyses restricted to the abstainer group comparing the responses of abstainers who were living with a person who used khat at the time with those who were not. Additionally, we hypothesised that abstainers who had used khat previously may have different perceptions about the health problems of khat use compared to abstainers who had never used khat. Accordingly, we conducted subgroup analyses restricted to the abstainer group comparing the responses of those who reported previous khat use versus those who reported they had never used khat. All analyses were conducted using STATA, version 14.0.

#### **Results**

Group demographics are reported in Table 1. The khat user and abstainer groups differed statistically significantly in age (P = 0.042). Participants in the user group were statistically significantly more likely to report smoking tobacco daily (P < 0.001) and to have spent significantly fewer years in Australia (P = 0.037).

Fisher's exact test analyses of the proportion of participants who endorsed health outcomes associated with khat use in each group is displayed in Table 2. Abstainers were statistically significantly more likely than users to endorse that "khat use makes people lazy after use" (P = 0.003); "is bad for blood pressure" (P = 0.022); "is bad for the stomach and throat" (P = 0.002); and "makes people more unhealthy" (P = 0.050). There was no difference between the groups for endorsement that khat use does not affect health, with a reasonably large proportion of participants endorsing this in both

groups (35.3% and 42.9% in the user and abstainer groups respectively).

The association between current khat use and the perceived harms due to khat use is reported in Table 3. After adjustment for model covariates, current khat users were less likely to perceive that "khat use makes people lazy after use" [prevalence risk ratio (PRR) = 0.86; 95% CI: 0.75-0.99]; "it is bad for the stomach and throat" (PRR = o.83; 95% CI: 0.72-0.96); "it makes people more unhealthy" (PRR = 0.86; 95% CI: 0.75-1.00), whilst "it is bad for the teeth, gums, and mouth" (PRR = 0.81; 95% CI: 0.67-0.99). Significant unadjusted associations were observed between the khat user group and perceptions that khat use "makes people not eat properly" (PRR = 0.86; 95% CI: 0.75-1.00); "makes people anxious" (PRR = 0.86; 95% CI: 0.75-0.98); "is bad for the heart" (PRR = 0.85; 95% CI: 0.73-0.99); and "makes people hear voices or see things that are not real" (PRR = 0.87; 95% CI: 0.75-1.00), however these associations were attenuated to the null after adjustment for model covariates.

Subgroup analysis of abstainers who did and did not currently live with a person who used khat found no differences in association of khat use between the subgroups for all outcomes except for those who did not currently live with a person who uses khat being more likely to perceive that it makes people depressed (P = 0.017) (Table 4). No differences were observed between abstainers who reported using khat previously and people who reported never using khat.

#### **Discussion**

Evidence to inform the development of prevention strategies and culturally-appropriate interventions for migrant groups has been highlighted as a key component of inclusion health (40). A nuanced understanding of how people who use khat perceive health problems associated with its use is an important step in identifying specific targets for health promotion and education. Highlighting the specific khat-related health problems that we found are perceived differently by those using and abstaining from khat is likely to be an important component of any educational intervention.

Our findings suggest that our hypothesis was correct: people abstaining from khat are more likely than those using it to perceive that khat use resulted in poorer overall health. One contradiction in our data is that a relatively large proportion of participants in each group endorsed that khat use was not associated with health problems. It is likely that this questionnaire item was not well understood. Specifically however, abstainers were more likely than users to perceive that khat use has a negative impact on health generally, results in poorer oral health, contributes to stomach and throat problems, and makes people lazy. These findings are similar to those of Wedegaertner et al., who found people using khat had less concerns than abstainers about the negative effects of its use (29). Our findings also have similarities with prior research into cannabis and tobacco use that found

Table 1 Demographic characteristics of study participants (adults from African migrant communities living in Australia) at the time of questionnaire completion

Characteristic	Khat users (n = 58)			Non users (n = 133)		Total (n = 133)	
	No.	%	No.	%	No.	%	
Age (years)							0.042
18-25	21	36.2	14	19.2	35	26.7	
26-35	15	25.9	24	32.9	39	29.8	
36-45	10	17.2	22	30.1	32	24.4	
> 45	12	20.7	13	17.8	25	19.1	
Total					131	98.5	
Age (years)							0.289
≤ 35	36	62.1	38	52.1	74	56.5	
> 35	22	37.9	35	47.8	57	43.5	
Total					131	98.5	
Sex							0.503
Male	49	84.5	59	78.7	108	81.2	
Female	9	15.5	16	21.3	25	18.8	
Total					133	100.0	
Employment status							0.703
Full-time	24	41.4	34	46.6	58	44.3	
Part-time/ casual/ contract	16	27.6	18	24.7	34	25.9	
Student/home duties/ volunteer	9	15.5	14	19.2	23	17.6	
Unemployed/pension	9	15.5	7	9.6	16	12.2	
Total					131	98.5	
Consumes alcohol							0.582
Yes	7	12.7	7	9.6	14	11	
No	48	87.3	66	90.4	114	89	
Total					128	96.2	
Smokes tobacco daily							< 0.001
-yes	32	55.2	6	8.0	38	28.6	
-no	26	44.8	69	92	95	71.4	
Total					133	100	
Years spent in Australia	51	87.9	65	86.7	116	87.2	0.037 <sup>b</sup>
	Mean	SD	Mean	SD	Mean	SD	
	7.37	5.64	9.78	6.44	8.72	6.19	

<sup>&</sup>lt;sup>a</sup>Fisher's exact test.

an inverse relationship between using a substance and the perceived risk associated with its use (30,32,33).

Our research expands on previous studies by Omar et al. (8), Zeleke et al. (27) and Wedegaertner et al. (29) which identified health problems perceived to be associated with khat use in communities where khat use is prevalent. Zeleke et al. reported that 92% of participants endorsed at least one khat-related health problem (27), but they did not compare perceptions of those using and those abstaining. Wedegaertner et al. did report differences in perceived harms associated with khat use between these groups (29), however they primarily focused on gender differences.

Our finding that people using khat were less likely than abstainers to perceive khat use being associated with oral health and stomach and throat problems is important in light of the evidence that khat chewing is associated with poor oral health (41,42) and digestive health problems (13,43). These health problems are obvious inclusions for any educational and health promotion efforts around khat use and its associated harms.

Our finding that abstainers are more likely than those using khat to perceive an association between khat use and laziness is interesting, with recent research into khat withdrawal identifying tiredness and poor motivation along with depression and irritability among the symptoms that were experienced at their

<sup>&</sup>lt;sup>b</sup>Independent samples t-test.

Table 2 Endorsement (agree/strongly agree) of health outcomes associated with khat use among adults from African migrant communities living in Australia: primary question "Do you think that khat affects peoples' health?"

Response	Khat user (n = 58)		Non-user (n = 75)		Total (n = 133)		P-value <sup>c</sup>
	No.	%	No.	%	No.	%	
No, it does not affect health	18	35.3	30	42.9	48	39.7	0.454
Total					121	91	
It makes people not eat properly	38	73.1	56	78.9	94	76.4	0.521
Total					123	92.5	
It makes people lazy after using	27	51.9	55	78.6	82	67.2	0.003
Total					122	91.8	
It makes people smoke more	38	74.5	48	69.6	86	71.7	0.682
Total					120	90.2	
It makes people anxious	32	60.4	52	75.4	84	68.9	0.114
Total					122	91.8	
It is bad for blood pressure	25	49.0	48	70.6	73	61.3	0.022
Total					119	89.5	
It is bad for the stomach and throat	29	55.8	60	82.2	89	71.2	0.002
Total					125	94.0	
It is bad for the kidneys	31	58.5	46	67.6	77	63.6	0.343
Total					121	91.0	
It is bad for the heart	27	51.9	49	70.0	76	62.3	0.059
Total					122	91.8	
People are more unhealthy	36	69.2	60	84.5	96	78.0	0.050
Total					123	92.5	
It is not good for teeth/gums/mouth	45	84.9	65	90.3	110	88.0	0.411
Total					125	94.0	
It makes people hear voices or see things that are not real	28	53.8	48	66.7	76	61.3	0.191
Total					124	93.2	
It makes people depressed	31	59.6	49	68.1	80	64.5	0.348
Total					124	93.2	
Khat is addictive	39	75.0	57	79.2	96	77.4	0.665
Total					124	93.2	

Fisher's exact test.

most severe level around 7 days after participants ceased using khat (21). These symptoms may be a factor in problems identified in communities where khat is used, such as family breakdown and unemployment (28) [unemployment being a particular challenge for African immigrants in Australia (44)]. Further research is warranted to develop withdrawal management strategies to assist individuals ceasing khat use, particularly during the first week of cessation.

Further research is needed to develop interventions for addressing khat use in communities where it is prevalent with the dual aims of reducing existing use and preventing uptake. Education to inform community members and leaders about khat-related harms should be a priority. Our findings suggest that it is important to include specific information about established oral (42) and digestive (13) health harms, as well as reduced motivation or sleeping difficulties following ceasing

khat use (21). The possibility that khat use can lead to dependence should also be highlighted (9). Additionally, hepatic disease (45) and mental illness (17) should be included in any materials developed. Previous research suggests that, given the cultural context in which khat is used, involving community leaders such as religious leaders in efforts to address and prevent khat use may be warranted (46). Efforts aimed at increasing awareness of khat-related harms should be accompanied by information about available assistance or treatment to cease use.

Our study had several strengths. The participants were members of migrant communities that have previously reported khat-related harm in Australia (28). Given that one of our primary aims was to inform interventions that target this group, their data are highly relevant. Although we generated a convenience sample, extensive community consultation and the use

Table 3 Modified log-linked Poisson regression of perceived harms for khat users and non-users among adults from African migrant communities living in Australia

Response	Unadjuste	d	Adjusted	Adjusted <sup>a</sup>			
	PRR (95% CI)	P-value	PRR (95% CI)	P-value			
No, it does not affect health	0.98 (0.87-1.10)	0.724	1.04 (0.94-1.16)	0.449			
It makes people not eat properly	0.86 (0.75-1.00)	0.043	0.91 (0.80-1.05)	0.205			
It makes people lazy after using	0.81 (0.72-0.92)	0.001	0.86 (0.75-0.99)	0.038			
It makes people smoke more	1.01 (0.84-1.21)	0.945	1.03 (0.88-1.19)	0.739			
It makes people anxious	0.86 (0.75-0.98)	0.024	0.92 (0.80-1.05)	0.214			
It is bad for blood pressure	1.00 (0.93-1.08)	0.986	1.02 (0.99-1.04)	0.130			
It is bad for the stomach and throat	0.78 (0.69-0.87)	< 0.001	0.83 (0.72-0.96)	0.012			
It is bad for the kidneys	0.91 (0.77-1.08)	0.284	0.98 (0.84-1.14)	0.799			
It is bad for the heart	0.85 (0.73-0.99)	0.036	0.94 (0.81-1.10)	0.454			
People are more unhealthy	0.84 (0.74-0.95)	0.007	0.86 (0.75-1.00)	0.043			
It is not good for teeth/gums/mouth	0.91 (0.77-1.07)	0.277	0.81 (0.67-0.99)	0.035			
It makes people hear voices or see things that are not real	0.87 (0.75-1.00)	0.044	0.94 (0.80-1.11)	0.485			
It makes people depressed	0.87 (0.76-1.00)	0.052	0.91 (0.79-1.06)	0.238			
Khat is addictive	0.98 (0.84-1.15)	0.812	1.09 (0.90-1.32)	0.390			

PRR = prevalence risk ratio

of focus groups contributed to the recruitment of this sample. Another strength was our use of African health liaison officers who were fluent in multiple African languages during interviews with participants. This, in combination with the fact that the questionnaires were translated into 4 additional languages, minimized the chances of information bias due to misunderstanding or misinterpretation during data collection.

One limitation of our study is our sample size, meaning we were underpowered to detect differences between

groups in univariate analyses. Accordingly, our findings of differences between groups when endorsing laziness, bad for blood pressure, bad for the stomach and throat, and people being generally less healthy being associated with khat use warrant further investigation with a larger sample. Furthermore, our study design generated a convenience sample that may not be representative of the entire population of people who use khat and abstaining members of their communities. A further limitation is that our study investigated participants' perceptions

Table 4 Endorsement (agree/strongly agree) of health outcomes associated with khat use among the non-user subgroup (adults from African migrant communities living in Australia) according to whether they live with a khat user or not

Response	Lives with khat user			Total,	Total, n = 75		Total (subgroup)		
	Yes (	Yes (n = 13)		No (n = 58)					
	No.	%	No.	%	No.	%	No.	%	
No, it does not affect health	5	45.4	25	43.1	30	43.5	69	92.0	1.000
It makes people not eat properly	8	66.7	48	82.8	56	80.0	70	93.3	0.240
It makes people lazy after using	7	58.3	48	84.2	55	79.7	69	92.0	0.057
It makes people smoke more	8	66.7	40	71.4	48	70.6	68	90.1	0.737
It makes people anxious	6	54.5	46	80.7	52	76.5	68	90.1	0.113
It is bad for blood pressure	9	75.0	39	70.9	48	71.6	67	89.3	1.000
It is bad for the stomach and throat	10	76.9	50	84.7	60	83.3	72	96.0	0.444
It is bad for the kidneys	8	66.7	38	69.1	46	68.7	67	89.3	1.000
It is bad for the heart	9	69.2	40	71.4	49	71.0	69	92.0	1.000
People are more unhealthy	10	76.9	50	87.7	60	85.7	70	93.3	0.380
It is not good for teeth/gums/mouth	12	92.3	53	91.4	65	91.6	71	94.7	1.000
It makes people hear voices or see things that are not real	6	46.1	42	72.4	48	67.6	71	94.7	0.100
It makes people depressed	5	38.5	44	75.9	49	69.0	71	94.7	0.017
Khat is addictive	10	76.9	47	81.0	57	80.3	71	94.7	0.711

<sup>a</sup>Fisher's exact test.

<sup>&</sup>quot;Adjusted for sex, age, employment status, daily tobacco use and total years in Australia.

about health problems associated with khat; these are subjective, and should not be relied upon as further evidence of khat-related harm. Additionally, our findings may not be generalizable to migrant communities outside of Australia. We relied on self-report of a sensitive behaviour, making social desirability bias a possible factor. Lastly, our design is cross-sectional, so we are unable to make causal inferences.

#### **Conclusion**

There is some perception of khat-related health problems, both by people using khat and those abstaining, in communities where khat use is prevalent in Australia. However, people who use khat are less likely to perceive that khat use is associated with health problems than abstainers, particularly in relation to the digestive system and laziness. Targeted health promotion efforts should be aimed at both reducing use in groups already using and preventing initiation of khat use. Health promotion materials should include information on the oral, digestive, hepatic and mental health problems associated with khat use as well as highlighting the potential for dependence, withdrawal symptoms during cessation, and information on the assistance and treatment available to those wishing to cease using.

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## Consommation de khat et problèmes de santé perçus chez les migrants africains en Australie : une étude exploratoire

#### Résumé

**Contexte:** L'utilisation chronique du khat, une plante aux propriétés psychostimulantes, a été associée à des problèmes de santé physique et mentale. Des recherches antérieures ont révélé que les non-consommateurs de khat étaient plus susceptibles que les consommateurs de percevoir son utilisation comme étant associée à une mauvaise santé.

**Objectifs :** Notre objectif était d'identifier les différences de perception des problèmes de santé spécifiques liés au khat entre les consommateurs et les non-consommateurs.

**Méthodes:** En 2012, 133 adultes (≥ 18 ans) issus de communautés de migrants africains dans quatre capitales d'États d'Australie ont répondu à des questionnaires afin de déterminer s'ils percevaient des problèmes de santé spécifiques associés à la consommation de khat. La régression de Poisson log-linéaire multivariable a été utilisée pour comparer les perceptions des deux groupes et identifier les différences, avec ajustement en fonction de facteurs sociodémographiques, de la consommation de tabac et des années de vie passées en Australie.

**Résultats:** Au total, 58 (44 %) et 75 (56 %) participants ont déclaré consommer et ne pas en consommer de khat, respectivement, au moment de l'étude. La régression de Poisson log-linéaire ajustée a montré que les consommateurs de khat étaient moins susceptibles que les non-consommateurs de percevoir certains problèmes de santé et problèmes connexes associés à cette pratique, y compris une mauvaise santé en général [rapport risque/prévalence = 0,86 ; IC à 95 % : 0,75, 0,99) ; les problèmes d'estomac et de gorge (rapport risque/prévalence = 0,83 ; IC à 95 % : 0,72, 0,96) ; et les problèmes de dents, de gencives et de bouche (rapport risque/prévalence= 0,81 ; IC à 95 % : 0,67, 0,99).

**Conclusions :** Les consommateurs de khat sont moins susceptibles de percevoir l'usage comme étant associé à des problèmes de santé que les non-consommateurs. La fourniture d'informations sur les problèmes de santé associés à la consommation de khat peut être une composante importante des stratégies et interventions de promotion de la santé visant à réduire au minimum les méfaits de cette substance.

### تعاطى القات والمشاكل الصحية التصورة بين المهاجرين الأفارقة في أستراليا: دراسة استكشافية

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#### الخلاصة

الخلفية: ارتبط إدمان تعاطي القات، وهو نبات له خصائص المُنبِّهات النفسية، بمشاكل بدنية ونفسية. وكشفت البحوث السابقة عن أن الأشخاص الذين لا يتعاطون القات كانوا أكثر ميلاً من متعاطيه لإدراك أن تعاطى القات يرتبط باعتلال الصحة.

الأهداف: هدفت هذه الدراسة إلى تحديد الاختلافات في إدراك أن تعاطي القات يرتبط بمشاكل صحية مُعينة بين متعاطي القات والذين لا يتعاطونه. طرق البحث: في عام 2012، استكمل 133 بالغًا (≥ 18 عامًا) من مجتمعات المهاجرين الأفارقة في 4 مدن من عواصم الولايات في أستراليا استبيانات للتأكد من إدراكهم لارتباط تعاطي القات بمشاكل صحية مُعينة. واستُخدم نموذج انحدار پواسون المرتبط بسجل والمتعدد المتغيرات للمقارنة بين مفاهيم مجموعتين من الأشخاص وتحديد الاختلافات، مع التعديل وفقًا للعوامل الاجتماعية السكانية، وتعاطي التبغ، وعدد سنوات العش في استراليا.

النتائج: بوجه عام، أفاد 58 مشاركًا (44٪) أنهم يتعاطون القات، بينها أفاد 75 مشاركًا (56٪) أنهم لا يتعاطونه. وأظهر نموذج انحدار پـواسون المرتبط بسجل والمتعدد المتغيرات أن متعاطي القات كانوا أقل ميلاً عن غير متعاطيه إلى إدراك ارتباط بعض الظروف الصحية والمشاكل المرتبطة بها بتعاطي القات، ويشمل ذلك اعتلال الصحة بشكل عام [نسبة خطر الانتشار = 68.0، بفاصل ثقة قدره 59٪: 0.70، و9.0)؛ ومشاكل المعدة والحلق (نسبة خطر الانتشار = 88.0؛ بفاصل ثقة 95٪: 0.72، و0.0)؛ ومشاكل المعدة والحلق (نسبة خطر الانتشار = 88.0؛ بفاصل ثقة 95٪: 0.72، و0.0)؛

الاستنتاجات: من غير المرجح أن يدرك متعاطو القات ارتباط تعاطيه بمشاكل صحية معينة، مقارنة بغير المتعاطين. وقد يكون توفير معلومات بشأن المشاكل الصحية المرامية إلى التقليل إلى أدنى حد ممكن من الأضرار المشاكل الصحية المرتبطة بتعاطيه.

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