The Experiences of People Who Quit Khat and the Health Care Professionals Who Support them

Suhana Begum¹, Angeliki Bogosian¹, Hayley McBain¹

Original Article

Abstract

Background: This study aimed to explore the barriers and enablers to quitting khat from the perspective of users and the barriers and enablers to supporting users to quit from the perspective of healthcare professionals (HCPs).

Methods: The present qualitative study was conducted using semi-structured interviews and the Theoretical Domains Framework (TDF) to collect and analyse data.

Findings: Overall, 10 khat users and 3 professionals were interviewed. Beliefs about the consequences of continued use facilitated user's decisions to quit. Social influences were both a barrier and an enabler. For professionals, the social influence of other colleagues and working together was key in enabling them to support clients. Social/professional role and identity was also an important enabler, as professionals saw supporting users to quit as an integral part of their role. A range of behaviour change techniques was identified as potential ways in which quitting attempts could be more successful, from the perspective of users and professionals.

Conclusion: The study reveals the complexity of khat chewing and quitting from the perspective of khat users, such as the varied influence of family and friends. It also identifies the many barriers and enablers that professionals experience when supporting individuals to quit, such as working with other professionals. There is little evidence for the effectiveness of current services provided for quitting khat or little information outlining how they were developed. Current services would benefit from evaluating the effectiveness of the interventions using established methodology. Recommendations have been provided for practice in the field of substance misuse.

Keywords: Catha; Drug users; Quit; Substance withdrawal syndrome

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¹⁻ School of Health Sciences, Division of Health Services Research and Management, University of London, London, England Correspondence to: Suhana Begum, Email: suhana.begum.1@city.ac.uk

Introduction

Khat (also known as catha edulis) is a plant the leaves of which are chewed or brewed. The consumption of this plant is common practice in African and Middle Eastern countries such as Somalia and these communities living in the UK.1 The main effects of chewing khat are similar to, but not as strong as amphetamines, which can make people feel very energetic and alert.2 Khat is typically used for long periods in social groups with family/friends,3 ranging from 1-2 hours to 12 hours.4 Prevalence rates vary considerably outside the UK. In Ethiopia, 8.7% of the 10,468 khat users reported using khat daily.5 There is little published data regarding the prevalence of its use in Europe.1 The Advisory Council on the Misuse of Drugs (ACMD) estimated that there are approximately 88000 users in the UK, with 50000 users in London.6

Khat was classified as a class C drug in the UK in 2014, restricting fresh leaves being imported. There are indications that it is being bought in a dry, powdery form, which is mixed with water and drunk and has milder positive effects than chewing.⁷ After approximately 2 hours of usage, users often start to feel anxious, inable to concentrate, and sleepless.⁸ Khat has also been associated with an increased conflict response,⁹ and excessive use of more than 2 bundles daily has been linked with oral health problems and liver failure.⁴

The evidence for khat use affecting mental health is mixed. 10 Current data is insufficient to suggest a causal relationship between using khat and long-term psychopathology. 11 Excessive usage could exacerbate existing psychological problems in users. 12 The withdrawal symptoms include feeling lethargic, slight trembling, and a desire to continue chewing. 4

Little research has been conducted on the support services available or their effectiveness in helping users to quit (i.e., barriers/enablers to supporting an individual in quitting) and useful behaviour change techniques.¹³ This could potentially be used for devising effective quit support programmes. There is no published evidence available about the quit support programmes available in the countries in which the substance is banned, indicating it may be up to the individual to quit of their own accord. At the time of publishing the present article, there were 5 programmes aiming to support users to

quit khat in England. There is limited information on these services; hence, their content remains unknown and no evidence has been provided for their effectiveness. There is variation in the services in terms of offering generic substance misuse advice or targeting khat specifically.

The present study aimed to:

- 1. Identify the key barriers and facilitators of quitting khat from the user's perspective
- 2. Identify the key barriers and facilitators health care professionals face in supporting users in quitting.

Methods

This was a qualitative study using semistructured interviews guided by the Theoretical Domains Framework (TDF),¹⁴ a framework of 14 domains developed for behaviour change research to understand barriers and enablers to performing a behaviour (Table 1).

Khat users and healthcare professionals (HCPs) were interviewed. Khat users (previous or current) aged 18 years or over were included in the study. Non-English speakers and participants with existing self-reported mental health conditions were excluded. HCPs included in the study were those working in substance misuse services in the UK with direct experience of supporting users to quit on a one-to-one or group basis.

Snowball sampling was used as recruitment was predicted to be difficult. Organisations working with people using khat in London were contacted. Eligible participants were asked to make contact if interested in taking part and incentivised with a £10 voucher. For HCPs, recruitment began in khat-specific quit services in London and was expanded to include UK wide services due to poor recruitment. Face-to-face or telephone interviews were offered to all and conducted by the primary researcher. Two interview topic guides were produced for khat users and HCPs based on the TDF, designed to elicit barriers (preventative factors) and enablers (assisting factors) across the domains and their relationship to quitting khat (service users) and supporting people to quit (HCPs) (Table 1). The study aimed to recruit 10 to 13 participants in each group or until saturation occurred (when no new themes emerged).15 The interview topic guides were amended as data collection ensued to ensure questions were accurately eliciting concepts of interest.

Table 1. Theoretical Domains Framework (TDF)¹⁴

Table 1. Theoretical Domains Fra		Sample question from this study
Domain (definition)	Constructs	(khat user/HCP)
1. Knowledge (An awareness	Knowledge (including	What do you know about what the law currently
of the existence of something)	knowledge of condition/scientific rationale)	says about using khat in the UK? Are you aware of any interventions available to
	Procedural knowledge	support people to stop using khat?
	Knowledge of task	support people to stop using killet.
	environment	
2. Skills (An ability or	Skills	What skills do you need to make sure you do not
proficiency acquired through	Skills development	start using khat again?
practice)	Competence	What skills do you need to support a service user
	Ability	to stop using khat?
	Interpersonal skills	
	Practice Skill assessment	
3. Social/Professional Role	Professional identity	How does your culture impact your use of khat?
and Identity(A coherent set of	Professional role	To what extent do you consider helping someone
behaviours and displayed	Social identity	to stop using khat part of your role?
personal qualities of an	Identity	1 6 1
individual in a social or work	Professional boundaries	
setting)	Professional confidence	
	Group identity	
	Leadership Organisational commitment	
4. Beliefs about capabilities	Self confidence	How confident are you that you could stop using
(Acceptance of the truth,	Perceived competence	khat if you wanted to?
reality, or validity of an ability,	Self-efficacy	How confident do you feel to support a service
talent, or facility that a person	Perceived behavioural control	user to stop using khat?
can put to constructive use)	Beliefs	
	Self-esteem	
	Empowerment Professional confidence	
5. Optimism (The confidence	Optimism	How hopeful are you that you will stay away from
that things will happen for the	Pessimism	khat in the future?
best or that desired goals will	Unrealistic optimism	How hopeful are you that your service users will
be attained)	Identity	stay away from khat in the future?
6. Beliefs about Consequences	Belief outcome expectancies	Have you ever experienced any positive effects
(Acceptance of the truth,	Characteristics of outcome	from using khat?
reality, or validity of the	expectancies	What positive outcomes have those who used your
outcomes of a behaviour in a given situation)	Anticipated regret Consequents	support services for stopping khat reported after attending them?
7. Reinforcement (Increasing	Rewards (proximal/distal,	What would encourage you to stop using khat?
the probability of a response	valued/not valued,	What encourages you to support service users in
by arranging a dependent	probable/improbable)	quitting khat?
relationship, or contingency,	Incentives	
between the response and a	Punishment	
given stimulus)	Consequents	
	Reinforcement Contingencies	
	Sanctions	
8. Intentions (A conscious	Stability of intentions	Do you think you will start using khat again?
decision to perform a behaviour	Stages of the change model	Do you intend to support your next service user
or resolve to act in a certain	Transtheoretical model and	who reports using khat in quitting?
way)	stages of change	

Table 1.	Theoretical	Domains	Framework	(TDF))14	(continue))
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Domain (definition)	Constructs	Sample question from this study
9. Goals (Mental representations of outcomes or end states that an individual wants to achieve) 10. Memory, Attention, and	Goals (distal/proximal) Goal priority Goal/target setting Goals (autonomous/controlled) Action planning Implementation intention Attention	(khat user/HCP) How important is quitting khat for you? How important is it for you to support service users to stop using khat? How much of your day involves thinking about
Decision Processes Memory (The ability to retain information, focus selectively on aspects of the environment and choose between two or more alternatives) 11. Environmental Context	Attention control Decision making Cognitive overload/fatigue Environmental stressors	using/or using khat? What factors are important for you in deciding how you will support someone to stop using khat? Are there certain situations that you might use
and Resources (Any circumstance of a person's situation or environment that discourages or encourages the development of skills and abilities, independence, social competence, and adaptive behaviour)	resources/material resources Organisational culture/climate Salient events/critical incidents Person x environment interaction Barriers and facilitators	Are there certain situations that you might use khat/find it difficult to not use khat? Do you have enough of the necessary resources to support service users to quit?
12. Social influences (Those interpersonal processes that can cause individuals to change their thoughts, feelings, or behaviours)	Social pressure Social norms Group conformity Social comparisons Group norms Social support Power Intergroup conflict Alienation Group identity Modelling	What impact did/do your family and friends have on your decision to use khat? How does the service user influence your approach to supporting them to stop using khat?
13. Emotion (A complex reaction pattern, involving experiential, behavioural, and physiological elements by which the individual attempts to deal with a personally significant matter or event)	Fear Anxiety Affect Stress Depression Positive/negative affect Burn-out	If you think about quitting khat, how does that make you feel? To what extent do emotional factors influence whether or not you support someone to stop using khat?
14. Behavioural Regulation (Anything aimed at managing or changing objectively observed or measured actions)	Self-monitoring Breaking habit Action planning	If you wanted to stop using khat, how would you do this? In your role as a professional, what do you see as the barriers to people quitting khat?

The analysis was based on TDF guided by similar studies, 16-18 taking a combined content 19 and framework analysis approach. 20 The transcripts were coded for the presence of TDF domain constructs (Table 1). Microsoft Word and Excel were used to analyse results in five stages (Figure 1).

Agreement between researchers on the presence of domains in the transcripts of one randomly selected user and one HCP were calculated by comparing the coding allocated to each utterance, noting agreement/disagreement and calculating this as a percentage of the total number of utterances.

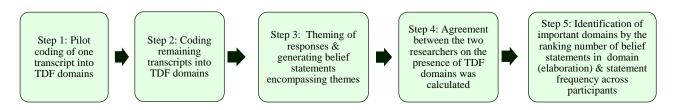


Figure 1. Data analysis process

Results were analysed separately for khat users and HCPs using a continuous consultation and critique process. Any instances of 'expressed importance' (where participants specifically mentioned the importance of a particular theme) were noted.

The study was approved by University of London, Psychology Research Ethics Committee (Reference: PSYCH(P/F) 14/15 113).

Results

A majority of the 10 khat using participants were male (70%), with an average age of 43 years [standard deviation (SD) = 16.1; range 22 to 68 years]. Two participants openly admitted to still using khat, whilst the remainder had quit. All participants were of Somali origin (first and second generation) living in London. After analysis of these 10 interviews, data saturation was reached. The three HCPs were specialist quitting khat support workers (two males, 66%) with an average work experience of 10 years (SD = 2.3; range: 9 to 13 years). The analysis

revealed the emergence of many similar belief statements, but saturation was not reached due to the restricted number of eligible professionals to recruit from. The user and HCP interviews were on average 25 minutes (SD = 13.6; range: 10 to 50 minutes) and 65 minutes long (SD = 25.7; range: 36 minutes to one hour 21 minutes), respectively. Agreement between the two researchers on the presence of TDF domains was 69% for users and 79% for HCP.

Khat users: A total of 616 participant utterances were coded into 11 of the 14 TDF domains and synthesised into 75 belief statements. All statements were classified as enablers or barriers to quitting, or both. Except skills, reinforcement, and emotions, all domains were mentioned by at least one user and had at least one associated belief statement. Beliefs about consequences and social influences were the domains with the highest level of elaboration, with 12 and 10 belief statements, respectively (Table 2), and will be elaborated upon here.

Table 2. Ranked domains and level of elaboration for khat users

TDF domain (rank order)	No. of participants	Level of elaboration		
	mentioning domain (max = 10)	No. of belief statements within the domain	No. of belief statements with expressed importance	
Beliefs about Consequences	10	12	2	
Social Influences	10	10	2	
Knowledge	10	2	0	
Behavioural Regulation	9	7	0	
Optimism	9	2	1	
Intention	9	1	1	
Memory, Attention, and	8	5	0	
Decision Processes				
Environmental Context and Resources	7	5	1	
Beliefs about Capabilities	6	3	1	
Goals	4	4	3	
Social/Professional Role and Identity	2	3	0	
Emotions	0	0	0	
Reinforcement	0	0	0	
Skills	0	0	0	

Beliefs about consequences contained 12 belief statements, centred on the negative consequences of chewing khat, and so, were enablers to the process of quitting. Participants discussed the effects they experienced while using khat and the benefits experienced after quitting in the same utterances. All participants spoke extensively about the physical and mental effects of using khat; P5 stated: "I will be crazy, not good. It's not good for health...it affect you, damage you... Gum, your teeth."

In this regard, P1 stated: "[Khat] used to stop my going to see my family and friends. Just sleep, get up, not eating properly... It used to give me that low feeling... depression. Sometimes it used to give me [thoughts of] suicide as well."

The negative effects were more salient than the positive effects and the benefits experienced from quitting outweighed the positive effects experienced from chewing; P1 asserted: "You feel excited and happy. Yes. But after a few hours, it's coming like – (indicates down)... low."

Other participants mentioned difficulties with attention and motivation. They were unable to go about their daily activities, which encouraged them to quit. In this regard, P3 declared: "Every time I used it in the week, I wasn't in any state to be able to go to work, to do anything. I was tired. I wasn't concentrating so it was only on weekends." Eight participants discussed the financial effects; buying khat was expensive and quitting saved money, making it an enabler to quitting. P3 stated: "It's very important [to stay abstinent] for your health being and also for your financial wellbeing. You'll be safe from those two, that's the main thing".

For six participants, their khat usage impacted their family and social relationships negatively, and therefore, was an enabler to quitting, which improved their relationships. One participant expressed the importance of staying abstinent from khat due to the detrimental effect she felt it would have on her family life; she stated: "[It is] very important [I stay abstinent] because I know now that my husband is not staying with me if I do that and now it is my children. I wouldn't dare." (P8).

Almost half the participants also spoke of their concerns about continuing to use khat post ban and prosecution, which was a clear enabler to quitting. P8 asserted: "I think it was more because

it was illegal and I didn't want anything to come of it." For two of the participants, using khat was a way to forget their surroundings, which they perceived to be a positive effect. Chewing khat served a particular purpose that acted as a barrier to quitting; P8 declared: "[I thought to myself] Let me not remember that, let me do this", so I'm going to use khat this way." One participant mentioned that he was still using khat, but it was of poorer quality post ban, which was an enabler to quitting; P6 stated: "The quality is... close to crap... It's more expensive." One participant felt khat affected society overall and so the ban was a positive thing that encouraged him to quit; he stated: "Because it has a mental effect, social effect, for a society and on an individual level." (P7).

For two participants, using khat led to using other substances and the concurrent use was a barrier to quitting, as using one would tempt them to use others. For one participant, this meant he quit using all substances together. He stated: "Khat made me drink as well... So I stop drinking, I stop khat, I stop smoking." (P1).

Participants also expressed opposing views about the difference between using khat in the UK and abroad. Two users felt that chewing khat was unhealthier in the UK than it was in other countries due to the farming methods. One participant thought khat available in the UK, contrary to Somalia, was grown with additional chemicals; P5 stated: "This khat, which one I used to eat in Somalia, is different than with the fluoride. But here they are brought from Kenya, too much chemicals. It's unhealthy." Another participant felt that khat was more potent in Somalia than in the UK; he declared: "[Khat in the UK did not] taste like same, but it was like fresh... you get more high." (P1). These beliefs were both enablers as participants recognised the negative effects of using khat (whether home or abroad), thus encouraging quitting.

Social influences was well-elaborated with ten belief statements. Culture was a key social influence for all participants, but individuals differed in this regard. Nine participants felt khat was a normal part of their culture, which was a barrier to quitting; "It's something with the heritage it has and our people back home chew it but as a person... your kinship – they chew it as well." (P6). However, one participant disagreed and did not view khat as a part of his culture. He

felt it was introduced later amongst people in Somalia, and so, was a habit rather than a cultural practice. Therefore, for him, perceived cultural links could be considered an enabler to quitting, as it may be easier to break a habit than to dismiss cultural practice. P7 stated: "I wouldn't say culture, some time ago, Somali people, they don't chew at all... it's not part of culture, but it's a part of entertainment".

Eight participants spoke about their family and friends using khat in social situations, which was a barrier to quitting. Two participants spoke about the importance of using khat with their friends, as it stimulated conversation and offered protected time to spend together. It was the norm regarding socialising; "Everybody else around you is doing it. It's the norm and you don't think any different of anybody. I know all my friends used to use it as well, so it is more of a social thing." (P8). One participant used khat when she was lonely, which was in contrast to other participants' social use; "It was like a chilling thing as well, like sometimes when you're lonely or sometimes it's just something to turn to." (P9). After quitting, participants discussed avoiding socialising with the friends they used to chew khat with in an attempt to stay abstinent; "If I see my old friends who I used to chew, if I mix with them I might go back to that khat." (P1).

All of the participants, however, said their family and friends encouraged them to quit, by reminding them of the consequences of using khat and encouraging them to spend time together as a way of distracting them from thinking about it; this was an enabler to quitting. "The family [said]...

"You are going through a negative life. We can't support you, we can't tolerate you, every time you are angry and upset." (P4).

Within this domain, one female participant spoke about the difficulty of disclosing her usage; "If you had asked me a few years ago, I wouldn't have spoken to you. It was all a secret and I never talked about it." (P8). Participants also spoke about how they sought help in quitting from HCP and their mosque. For one participant, his religious beliefs enabled him to quit; "I go to Kaaba. The Qur'an, you have to read the Qur'an. People there are very clean, they support you. They were saying, "This is a drug, this is not good for you." It's good to go back to your religion, it's going to be help you... We are human, we are making mistakes. But Allah [God] say, "You'll never forbid my forgiveness." That's why I said, "No." (P4). For two of the participants, seeking professional help enabled them to quit; "[Support worker] helped me, he helped me. Because I used to drink a lot as well... He gave me advice and, because he used to help people and stop khat as well." (P1).

HCP: A total of 444 participant utterances were coded into 13 of the 14 TDF domains and synthesised into 82 belief statements. All domains except memory, attention, and decision processes were mentioned by at least one HCP and had a number of associated statements, which were barriers or enablers to supporting an individual to quit, or both. Social influences and social/professional role and identity were the domains with the highest level of elaboration with 10 and nine belief statements, respectively, (Table 3) and will be elaborated upon here.

Table 3. Ranked domains and level of elaboration for healthcare professionals (HC	P١

TDF Domain (rank order)	No. of participants	Level of elaboration		
	mentioning domain (max = 3)	No. of belief statements within domain	No. of belief statements with expressed importance	
Social Influences	3	10	3	
Social/Professional Role and Identity	3	9	3	
Environmental Context and Resources	3	8	1	
Skills	3	7	5	
Beliefs about Consequences	3	5	0	
Reinforcement	3	4	1	
Beliefs about Capabilities	3	3	1	
Goals	3	2	0	
Knowledge	2	3	1	
Intention	2	1	0	
Emotions	2	1	0	
Optimism	2	1	0	
Behavioural Regulation	1	2	0	
Memory, Attention, and Decision Processes	0	0	0	

Within social influences, HCPs discussed the characteristics of their clients in detail and how this affected their work. All three HCPs spoke about working closely with other professionals to support clients, such as colleagues in local mental health services, and this was an important enabler to supporting users to quit. In this regard, P12 stated: "That's really important to us [to support each other] because it's a very difficult job... We say that, "I've been working with a client and I think maybe you can start working with him and I think that that might help." They all also spoke about the positive influence of their colleagues, such as being able to seek practical and moral support, which is an important enabler to supporting clients to quit. P12 also stated: "The encouragement and also the support we offer each other. That's really important to us."

They spoke about the influence of the local community, who did not see khat as a drug, and thus, were a barrier to them offering support; "It took us a very long time for us to build this group of client and to access our services because the community did not see Khat as a drug at all. It was actually a big, big struggle for us". (P10). HCPs also spoke about how the clients influenced the way in which they worked, such as gender. Female clients expressed the opinion that women should not use khat and so they only told people they could trust. They were more concerned than male clients about confidentiality and worried about being judged for using khat. Women specifically wanted to receive support from a female worker; "There's a big stigma about Somali women using khat and other drugs. The women are very secretive, they only tell people who they trust". (P12).

All of the professionals spoke about client motivation. Motivated clients enabled them to offer support effectively, but unmotivated clients made it difficult. "The willingness... if it's within the client side, they want to change, that eagerness and motivation. It's very important factor for me because it will make my life and my job ten times easier." (P10). Once a client had stopped using khat, the HCP could support them further and this made the process easier; "With khat once thrown out of their system they've realised they have... health problem". (P10).

One barrier mentioned by all three HCPs was the difficulties in supporting people with other issues, e.g., addictions. Priority would be given to addressing issues more salient to clients than quitting, such as mental health concerns, through working with them directly or referring them to another organisation. For other clients, the practicality of addressing their additional needs meant that the support offered took longer (e.g., arranging interpreters for those with language barriers). In this respect, P13 stated: "You might need to work with the mental health service to refer them for medication... The other normal problem where people need a lot of help.... It is almost you have to take them different places even, in the local authority... because they cannot communicate in any way." One HCP expressed the importance of clients understanding that their khat usage was causing the problems they had sought support for; "The most important factor is... how they see the problem and how motivated they are. At what stage they are in. Because people go different stages, they've gone pre-contemplation". (P12).

Within social and professional role, and identity, HCPs spoke about the requirements of their role and how they enacted these. All three participants specifically mentioned that helping people to stop using khat was part of their role; "It's very, very important that we support clients to stop or reduce their khat use because I think that's my job." (P10). The HCPs did this in a number of ways, including enabling clients to monitor their khat usage or quit status (n = 2), helping clients in problem solving (n = 2), developing action plans and setting goals for quitting (n = 2), teaching clients about the consequences of using khat and the benefits of stopping (n = 2), and, for one HCP, providing emotional support. Regarding emotional support, P10 stated: "We also do emotional support work whereby we have one-to-one where they talk about different issues... emotional issue, family issue, and if they are ready to do some counselling or psychological therapy, we refer them onto that".

All of the HCPs had personal experience of khat use through their own or their family/friends usage. This helped them to empathise with their clients through reflecting on their own experiences of quitting and the support they would have liked. "I remember years ago when I used to chew khat... at that time there was

no one to help... I used to struggle, really. And to help someone, I think, come out of their difficulties, that's really rewarding." (P12). They all also mentioned how their own religious principles and understanding of culture guided their practise; "It's something Islamically when someone trusts you with information or anything that they trust you with, you must not tell anyone else." (P12). One HCP felt that he had a duty as a practitioner to support people whatever their circumstances; he stated: "This is your role and your duty to help. Sometimes even though they can impact your emotions." (P12).

Discussion

The present study aimed to identify the key barriers and enablers to quitting khat from the perspective of khat users and to supporting those who use khat to stop from the HCP perspective.

The most important domains for khat users were beliefs about consequences and social influences. In beliefs about consequences, users spoke extensively about the negative consequences of using khat and the benefits of quitting, broadly grouped around effects on physical health (i.e., eating, sleeping, and oral health), mental health (mood), motivation and attention, financial effects (costs of using khat and financial loss through unemployment), and the effects on family and social relationships. The negative effects of using khat encouraged them to guit and the positive effects they experienced after quitting encouraged them to stay abstinent.

Participants in the present study identified both positive and negative effects on their mood, such as feeling very social and an exacerbation of existing mental health conditions. Previous studies have highlighted similar positive and negative effects for chewing khat.^{21,22} In the present study, participants spoke about the differences between using khat in the UK and abroad. The khat distributed in the UK was thought to be unhealthier, and therefore, harder to quit than that found abroad. Patel et al.²³ however, found that 28% of khat users felt that khat was stronger in Somalia than the UK, 27% felt it was stronger in the UK than Somalia, and 45% felt there was no difference.

Khat was used in conjunction with other substances, such as tobacco and alcohol, supporting previous findings.²³⁻²⁵ This may be

because smoking is thought to enhance the effects of khat use.²⁶

Participants spoke about the influence of family and friends, cultural norms, and religious beliefs on their khat chewing behaviour. Many participants used khat in social settings with friends and, occasionally, family. Users did, however, recognise the impact using khat could have on their family, and more often family members encouraged and supported them to quit and stay abstinent. Almost all participants, however, felt that chewing khat was a cultural practice that was a normal part of social gatherings. Similarly, Patel et al.23 reported that 70% of recent khat users stated that their family were aware of their khat use, 4.4% felt using khat was part of the Somali tradition, and 40.3% used it to socialise. This could indicate that for UK khat users, while their families are aware of their usage and perhaps may have a more relaxed attitude towards it, they would still like them to quit. Practising religion outwardly (reading the Qur'an) and inwardly (repentance and seeking forgiveness) also influenced and encouraged quitting behaviour. This is the first time that this has been identified in khat studies, but is similar smoking cessation, where highlighting religious beliefs and rulings can potentially increase the effectiveness of campaigns.27

Seeking professional support was found to be useful in helping participants to quit, a key finding to emerge from the study, indicating a need for khat support services (a khat specific quit service or a support service staffed by workers who understand the wider context around using khat). Nevertheless, as indicated by the ACMD report¹ and the primary researchers' attempts at recruiting HCPs for the study, there are very few services available in the UK and there is a lack of evidence for the effectiveness of the available services.

HCPs revealed the complexity of their role and highlighted barriers and enablers to supporting people to quit. The most important domains were social influences social/professional role and identity. HCPs spoke about the benefits of working closely with other professionals inside and outside organisations to better support clients. These relationships also benefitted HCPs, as they were able to access advice, and feel supported and motivated by their colleagues. The literature suggests that multidisciplinary working can be advantageous in treating substance misuse, but good working relationships are needed in order to facilitate this.²⁸

Participants spoke about the clients themselves and how their characteristics and behaviours made it more difficult to support them in quitting, such as client's additional substance use (e.g., alcohol) or additional health problems (e.g., mental health issues), and lack of self-awareness of their substance misuse issues or currently using khat. The National Institute for Health and Care Excellence (NICE) guidance on managing multimorbidity defines it as the presence of two or more long term health conditions, including physical and mental health conditions.²⁹ The guidelines recommend that HCPs consider the interaction between a person's conditions and current treatments, and the effect on their quality of life (QOL). Beneficial non-pharmacological treatments (e.g., diets or exercise programmes) are also recommended. The HCPs in the present study indicated they had discussions of this nature with clients and recognised quitting khat may not always be the top priority of the clients.

HCPs spoke about the gender of their clients. Female clients were concerned about confidentiality, worried about being judged for using khat, and specifically wanted support from a female worker. Gender differences in the acceptability of khat use was also raised, highlighting the stigma associated with women using khat, supporting the reports of users within this study and previous researches. 30,23

HCPs defined their role as supporting their through problem-solving, quit developing goals/action plans, and monitoring usage and quit status. In the UK, khat users were found to be reluctant to seek support from a doctor or any other services with the negative effects of chewing, and even if a user did approach a professional, there was a lack of awareness about khat usage and its effects amongst those professionals who did not originate from khat chewing communities.²³ This is in line with the sentiments expressed by the HCPs in the present study, who felt their personal experiences of khat helped and encouraged them to support clients more effectively. They felt it was their duty and were led by their religious values and understanding of the client's culture.

The present study reveals the complexity of khat chewing and quitting from the perspective of users. It identifies the many barriers and enablers HCPs experience when supporting individuals to quit. There is little evidence for the effectiveness of current quitting khat services or little information outlining their development. These findings indicate the ways in which people could be supported to quit, and services need to ensure these areas are covered. Current services would benefit from evaluating the effectiveness of the interventions and mapping it onto these using established methodology.31 Alternatively, a novel intervention could be developed using established methodology32 and assessing it against the APEASE (Acceptability, Practicability, Effectiveness/cost-effectiveness, Affordability, Safety/side-effects, Equity) criteria³³ for final inclusion.

One of the strengths of this study was the use of the TDF, which allows intervention developers to consider the full range of barriers and enablers to behaviour and map these onto established behaviour change techniques to make an informed decision about which techniques would fit a potential intervention based on current evidence.³³ Using this approach ensures that the intervention is developed in systematic, evidence-based fashion.

The study does have a number of limitations. Data saturation was not reached for HCPs, additional participants in this group would allow for further investigation of the key issues from the perspective of different organisations. However, this is also limited by the restricted number of services and the number of eligible professionals to recruit from. Recruitment overall was challenging. Despite the primary researcher's connections with professionals working with the Somali community it was difficult to recruit participants to take part, especially women. This could indicate cultural stigma associated to female khat use. All the female khat users in this study opted for telephone interviews indicating there may still be a taboo for female users even amongst a UK population, where attitudes towards female substance misuse are more relaxed than other countries.34

Another limitation of the study is that the belief statements were not coded back into the domains by a blinded researcher as

recommended.²⁰ This would have increased the reliability of the data, ensuring that the belief statements accurately reflected the TDF domains.

Conclusion

For khat users, it was clear, there were a number of influential factors that encouraged khat use and a number of barriers and enablers to quitting. The negative physical and mental effects, as well as the social impact of chewing on family relationships and finances were important reasons for quitting. Gender influences were also important, with female participants discussing hiding their khat usage from their family and friends due to perceived stigma. HCPs showed the complexity of their role and spoke about the benefits of working closely with other professionals to better support clients. Their role included supporting clients using a range of

behaviour change techniques, ensuring confidentiality, and taking a non-judgemental approach. They identified relevant skills needed to work with clients to support them to quit, such as being able to tailor the support offered, and interpersonal skills.

Conflict of Interests

The Authors have no conflict of interest.

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Authors' Contribution

AB and HM supervised the study.

References

- Advisory Council on the Misuse of Drugs (ACMD). Khat: A review of its potential harms to the individual and communities in the UK [Online]. [cited 2013 Jan 23]; Available from: URL: https://www.gov.uk/government/publications/khatreport-2013
- 2. Honest information about drugs FRANK. Speed: Also called: Whizz, Sulph, Paste, Billy, Base, Amphetamine Sulphate, Amphetamine [Online]. [cited 2017 Dec 24]; Available from: URL: https://www.talktofrank.com/drug/speed
- **3.** Honest information about drugs FRANK. Khat: Also called: Quat, Qat, Qaadka, Chat [Online]. [cited 2014 Feb 4]; Available from: https://www.talktofrank.com/drug/khat
- **4.** Corkery JM, Schifano F, Oyefeso A, Ghodse AH, Tonia T, Naidoo V, et al. Overview of literature and information on "khat-related" mortality: A call for recognition of the issue and further research. Ann Ist Super Sanita 2011; 47(4): 445-64.
- **5.** Estifanos M, Azale T, Slassie M, Aynalem G, Kefale B. Intention to stop khat chewing and associated factors among khat chewers in Dessie city, North Eastern Ethiopia. Epidemiology 2016; 6: 11.
- **6.** Advisory Council on the Misuse of Drugs (ACMD). Khat (Qat): Assessment of Risk to the Individual and Communities in the UK, 2005 [Online]. [cited 2017 Dec 15]; Available from: URL: https://www.gov.uk/government/publications/khatreport-2005--6
- 7. Hassan NA, Gunaid AA, Murray-Lyon IM. Khat (Catha edulis): Health aspects of khat chewing. East

- Mediterr Health J 2007; 13(3): 706-18.
- **8.** Cox G, Rampes H. Adverse effects of khat: A review. Adv Psychiatr Treat 2003; 9(6): 456-63.
- **9.** Colzato LS, Ruiz MJ, van den Wildenberg WPM, Hommel B. Khat use is associated with increased response conflict in humans. Hum Psychopharmacol Clin Exp 2012; 27(3): 315-21.
- **10.** Pennings EJM, Opperhuizen A, van Amsterdam JGC. Risk assessment of khat use in the Netherlands: A review based on adverse health effects, prevalence, criminal involvement and public order. Regul Toxicol Pharmacol 2008; 52(3): 199-207.
- **11.** Feyissa AM, Kelly JP. A review of the neuropharmacological properties of khat. Prog Neuropsychopharmacol Biol Psychiatry 2008; 32(5): 1147-66.
- **12.** Warfa N, Klein A, Bhui K, Leavey G, Craig T, Alfred SS. Khat use and mental illness: A critical review. Soc Sci Med 2007; 65(2): 309-18.
- 13. Kassim S, Croucher R, Al'Absi M. Khat dependence syndrome: A cross sectional preliminary evaluation amongst UK-resident Yemeni khat chewers. J Ethnopharmacol 2013; 146(3): 835-41.
- **14.** Cane J, O'Connor D, Michie S. Validation of the theoretical domains framework for use in behaviour change and implementation research. Implement Sci 2012; 7: 37.
- **15.** Francis JJ, Johnston M, Robertson C, Glidewell L, Entwistle V, Eccles MP, et al. What is an adequate sample size? Operationalising data saturation for theory-based interview studies. Psychol Health 2010; 25(10): 1229-45.

- 16. Islam R, Tinmouth AT, Francis JJ, Brehaut JC, Born J, Stockton C, et al. A cross-country comparison of intensive care physicians' beliefs about their transfusion behaviour: a qualitative study using the Theoretical Domains Framework. Implement Sci 2012; 7: 93.
- 17. Patey AM, Islam R, Francis JJ, Bryson GL, Grimshaw JM. Anesthesiologists' and surgeons' perceptions about routine pre-operative testing in low-risk patients: Application of the Theoretical Domains Framework (TDF) to identify factors that influence physicians' decisions to order pre-operative tests. Implement Sci 2012; 7: 52.
- **18.** McBain H, Begum S, Rahman S, Mulligan K. Barriers to and enablers of insulin self-titration in adults with Type 2 diabetes: A qualitative study. Diabet Med 2017; 34(2): 253-61.
- **19.** Pope C, Ziebland S, Mays N. Qualitative research in health care. Analysing qualitative data. BMJ 2000; 320(7227): 114-6.
- **20.** Ritchie J, Lewis J. Qualitative research practice: A Guide for Social science students and researchers. London, UK: SAGE Publications; 2003.
- **21.** Thomas S, Williams T. Khat (Catha edulis): A systematic review of evidence and literature pertaining to its harms to UK users and society. Drug Science, Policy and Law 2013; 1: 1-25.
- **22.** Deyessa N, Berhane Y, Alem A, Hogberg U, Kullgren G. Depression among women in rural Ethiopia as related to socioeconomic factors: a community-based study on women in reproductive age groups. Scand J Public Health 2008; 36(6): 589-97.
- 23. Patel SL, Wright S, Gammampila A. Khat use among Somalis in four English cities. Home Office Online Report 47/05 [Online]. [cited 2013 Jan]; Available from: URL: http://karin-ha.org.uk/wp-content/uploads/2013/01/rdsolr4705.pdf
- **24.** Kassim S, Jawad M, Croucher R, Akl EA. The epidemiology of tobacco use among khat users: A systematic review. Biomed Res Int 2015; 2015: 313692.

- **25.** Manghi RA, Broers B, Khan R, Benguettat D, Khazaal Y, Zullino DF. Khat use: Lifestyle or addiction? J Psychoactive Drugs 2009; 41(1): 1-10.
- **26.** Kassim S, Islam S, Croucher RE. Correlates of nicotine dependence in U.K. resident Yemeni khat chewers: A cross-sectional study. Nicotine Tob Res 2011; 13(12): 1240-9.
- **27.** Ghouri N, Atcha M, Sheikh A. Influence of Islam on smoking among Muslims. BMJ 2006; 332(7536): 291-4.
- **28.** McMurran M. What works in substance misuse treatments for offenders? Crim Behav Ment Health 2007; 17(4): 225-33.
- 29. The National Institute for Health and Care Excellence (NICE). Multimorbidity: clinical assessment and management. NICE guideline [NG56] [Online]. [cited 2016 Sep]; Available from: URL:
 - https://www.nice.org.uk/guidance/ng56/chapter/recommendations
- **30.** Wedegaertner F, al-Warith H, Hillemacher T, te Wildt B, Schneider U, Bleich S, et al. Motives for khat use and abstinence in Yemen a gender perspective. BMC Public Health 2010; 10(1): 735.
- **31.** Craig P, Dieppe P, Macintyre S, Michie S, Nazareth I, Petticrew M. Developing and evaluating complex interventions: The new Medical Research Council guidance. BMJ 2008; 337: a1655.
- **32.** Michie S, Richardson M, Johnston M, Abraham C, Francis J, Hardeman W, et al. The behavior change technique taxonomy (v1) of 93 hierarchically clustered techniques: Building an international consensus for the reporting of behavior change interventions. Ann Behav Med 2013; 46(1): 81-95.
- **33.** Michie S, Atkins L, West R. The behaviour change wheel: A Guide to designing interventions. London, UK: Silverback Publishing; 2014.
- **34.** Nabuzoka D, Badhadhe FA. Use and perceptions of khat among young Somalis in a UK city. Addiction Research 2000; 8(1): 5-26.

تجربیات افراد ترککننده خط (قات) و متخصصان بهداشت و درمان کمککننده به آنها

سوهانا بگوم 🕪، آنجلیکی بوگوسیان ۱، هایلی مکبین ۱

مقاله يژوهشي

چکیده

مقدمه: پژوهش حاضر با هدف بررسی عوامل تسهیل کننده و بازدارنده ترک خط (قات) از دیدگاه مصرف کنندگان و عوامل تسهیل کننده و بازدارنده در ارایه پشتیبانی برای افراد در ترک خط (قات) از دیدگاه متخصصان بهداشت و درمان انجام شد.

روشها: این مطالعه از نوع کیفی بود و با استفاده از مصاحبههای نیمه ساختار یافته و چارچوب دامنههای نظری (Theoretical Domains Framework یا TDF) برای جمع آوری و تحلیل دادهها صورت گرفت.

یافته ها: مصاحبه با ۱۰ مصرف کننده خط (قات) و سه متخصص انجام گردید. باورهای مرتبط با نتایج استفاده مداوم، تسهیل کننده تصمیم ترک در مصرف کنندگان بودند. تأثیرات اجتماعی، تسهیل کننده و بازدارنده بود. برای متخصصان، تأثیر اجتماعی همکاران و همکاری عوامل کلیدی، از جمله تسهیل کننده ها در ارایه پشتیبانی بود. نقش و هویت اجتماعی حرفه ای یک تسهیل کننده مهم محسوب گردید؛ چرا که متخصصان، ارایه پشتیبانی برای افراد در ترک را بخش اساسی نقش خود می دانستند. طیف وسیعی از تکنیکهای تغییر رفتار به عنوان راههایی که از طریق آنها تلاش برای ترک می تواند موفق تر باشد، از دیدگاه متخصصان و مصرف کنندگان مشخص شد.

نتیجه گیری: تحقیق حاضر پیچیدگی جویدن و ترک خط (قات) را از نقطه نظر مصرف کنندگان مانند تأثیرات متفاوت خانواده و دوستان نشان داد. همچنین، عوامل تسهیل کننده و بازدارنده متعددی که متخصصان در ارایه پشتیبانی در ترک تجربه می کنند، مانند کار کردن با متخصصان دیگر، مشخص گردید. شواهد کمی برای اثربخشی خدمات فعلی ارایه شده برای ترک خط (قات) و اطلاعات کمی راجع به شکل گیری آنها موجود می میباشد. خدمات فعلی ارایه شده را می توان به وسیله ارزیابی اثربخشی مداخلات با استفاده از روشهای موجود بهبود بخشید. توصیههایی در زمینه سوء مصرف مواد ارایه شده است.

واژگان کلیدی: قات، مصرف کنندگان مواد مخدر، ترک، سندرم ترک مواد مخدر

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