Improving pathways to care through interventions cocreated with communities: a qualitative investigation of men’s barriers to tuberculosis care-seeking in an informal settlement in Blantyre, Malawi

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ABSTRACT

Introduction Men have a higher prevalence of undiagnosed tuberculosis (TB) than women and can spend up to a year longer contributing to ongoing transmission in the community before receiving treatment. Health outcomes are often worse for patients with TB living in informal settlements especially men. This study aimed to understand the barriers preventing men from seeking care for TB and cocreate interventions to address these barriers.

Methods We used qualitative research methods including in-depth interviews and participatory workshops. Researchers worked with women and men living in Bangwe, an informal settlement in Blantyre, Malawi to develop interventions that reflected their lived realities. The study took place over two phases, in the first phase we undertook interviews with men and women to explore barrier to care seeking, in the second phase we used participatory workshops to cocreate interventions to address barriers and followed up on issues emerging from the workshops with further interviews. In total, 30 interviews were conducted, and 23 participants joined participatory workshops. The team used a thematic analysis to analyse the data.

Results Three interconnected thematic areas shaped men’s health TB seeking behaviour: precarious socioeconomic conditions; gendered social norms; and constraints in the health system. Insecurity of day labour with no provision for sick leave; pressure to provide for the household and a gendered desire not to appear weak and a severely under-resourced health system all contributed to men delaying care in this context. Identified interventions included improved patient–provider relations within the health-system, improved workers’ health rights and broader social support for households.

Conclusion Improving mens’ pathways to care requires interventions that consider contextual issues by addressing individual level socioeconomic factors but also broader structural factors of gendered social dynamics and health systems environment.

INTRODUCTION

Tuberculosis (TB) is the leading infectious cause of adult death worldwide.1 Approximately 10 million people become ill with TB each year, with a further 1.5 million people die of TB annually.2 Countries in sub-Saharan Africa—like Malawi—have experienced extremely high incidence of TB, driven by generalised HIV epidemics and poverty.3 4 Concerted global action to end the TB pandemic by 2030 has galvanised around key targets, including Target 3.3, of the Sustainable Development Goals. Despite global recognition of the need for urgent action on TB, progress towards meeting global targets remains unacceptably slow.
slow. An estimated 3.6 million people are either not diagnosed or reported to national TB programmes each year. Intensified efforts to identify, evaluate and implement interventions that reflect the lived realities of affected communities are urgently needed.

Prompt recognition of people with active TB and initiation of effective anti-TB treatment are vital to improve treatment outcomes and reduce transmission. Studies in many countries indicate significant delays exist in seeking care among people subsequently diagnosed with TB. In Malawi, substantial patient delays have been recorded, with severe deterioration in health following a prolonged period of symptoms often preceding health facility presentation. The direct costs including transport and loss of work days often impacted low income households. Social stigma caused by a widely-held perception that a TB diagnosis indicates HIV infection may also lead to delays in health seeking.10

Men are disproportionately-affected by TB, with the prevalence of undiagnosed infectious TB among men two times higher than among women.11 In Malawi, men spend on average 1 year longer than women with undiagnosed TB in the community and are likely to be responsible for upwards of two-thirds of all TB transmission events in Africa. Improving timely diagnosis of TB is therefore likely to have substantial health benefits for men, women and children.

The substantially higher burden of TB among men compared with women reflects broader patterns of morbidity and mortality data across the world, with women on average living 6 years longer than men. These patterns are in part shaped by biological factors. However, the sociocultural construct of gender also plays an important role in explaining these differences. The WHO defines gender as ‘the roles, behaviours, activities, attributes and opportunities that any society considers appropriate for girls and boys, and women and men. Gender interacts with, but is different from, the binary categories of biological sex’. Central to the concern of gender is the hierarchical power relations that shape relationships between different groups of people.

Since the 1990s, critical gender theories have increasingly focused on how gender shapes men’s health and well-being. Connell and Gender suggest that gender has a materialist orientation, understood in terms of practices (what people actually do) rather than what is expected. This moves gender beyond being a fixed set of values or norms, to something that is produced and reproduced in everyday practice. The theoretical framing of this paper draws on both critical gender theory to understand barriers men’s care seeking for TB with the overall purpose to identify interventions to address these barriers.

**METHODS**

**Study context**

Malawi is considered a low-income country ranking 171st out of 189 countries on the United Nations Development Programme human development index. Approximately 80% of Malawi’s population undertake subsistence farming, with maize being the dominant crop. A recent survey by Afrobarometer found that Malawi was one of the most food insecure countries in Africa. An estimated 38% of Malawian’s live below the poverty line and 47% of children are stunted. In comparison to other countries, urbanisation has been slower in Malawi and a majority of the population (84%) reside in rural areas.

This study was situated in Bangwe Township, an informal settlement on the eastern outskirt of Blantyre City, Southern Malawi. The formation of Bangwe dates back to colonial rule, when Native Africans were considered too primitive for urban dwelling. They were instead forced to live on the periphery of the city in townships that were referred to as Native Land Trusts. Mass migration from rural to urban areas during the colonial period led to densely overcrowded informal settlements. Following independence in 1964, traditional housing associations were established in Native Land Trusts of Blantyre, including Bangwe. Reflecting colonial ideologies, Native Land Trusts, remained underdeveloped, overcrowded with little access to basic amenities. The historical formation continues to shape the lives of residents as access to public services remain extremely limited and overpopulation an ever-growing challenge. British rule also brought the introduction of urban capitalism changing family configurations and gendered norms. There was increasingly nucleated family and a greater dependency of women on their husbands’ wage labour. It also physically relocated women away from their land making access to food sources more challenging. Today, Malawi ranks 172 out of 189 countries making it one of the most unequal countries in the world.

Malawi’s health system is pluralistic, with government, private and faith-based organisations providing services. The government sector being the only services provided free at the point of use. Primary health centres are important entry points for health service provision, with most TB diagnosis and treatment services being integrated at this level.

**Study design**

This study aimed to understand barriers and develop interventions to improve pathways to diagnosis and care of TB for men living in an informal settlement in urban Blantyre. We used qualitative study design (in-depth interviews (IDIs)) and participatory workshops (PWs). IDIs were selected because they provided participants with an opportunity to articulate their experiences in their own words. PWs took an art-based approach and drew on Theatre of the Oppressed (TO) as a research method in conjunction with group discussions. TO is a participatory theatre making methodology developed by Augusto Boal which includes techniques such as Image Theatre and Forum theatre. In our study, games and exercises were used to break down barriers between participants and the research team, before using Image
Theatre. Participants made still images with their bodies to explore gender norms, experiences of sickness and healthcare, which were then discussed as a group. The process continued by developing role plays and finally a Forum Theatre performance for the study team which demonstrated some of the challenges of men seeking healthcare, and gave opportunities for the audience to suggest and try out different solutions onstage. To allow for open discussion of potentially sensitive gender norms and behaviours these PWs initially divided groups by gender, working separately with men and women before bringing the two groups together to make the performance.

Data collection
Data collection took place between January 2019 until October 2019, using IDIs and PWs. The study team used a short screening tool to identify women attending the Bangwe Primary Clinic who reported their partners had a persistent cough (defined as a cough lasting more than 2 weeks). We then asked if they would consent to an interview; following the interview we also asked if they would be happy for us to contact their partners. Eleven women and 10 men participated in the initial interviews; we stopped interviews when no further themes arose. After analysing the data from the interviews and themes relating to men’s treatment barriers had been identified, we held PWs to further discuss the barriers and to identify and prioritise potential interventions to these barriers. PWs happened over a 1-week period, with each day split into 5-hourly discussion sessions. We invited all participants from the IDIs to join the workshops, but nine were not available. So, we used snowballing techniques with our recruited participants to identify men and women living in Bangwe who were willing to participate in the PWs. Following the workshops, we invited participants who had not previously been interviewed to attend an interview. Median (IQR) ages by sex for the 30 study participants were 34 (23–42) years for women and 37 (26.5–62.5) years for men. Interviews were conducted in a private room within the research office in the clinic and lasted between 1 hour and 45 min. All interviews and PW discussions were conducted in the local language (Chichewa) and audio recorded.

The research team comprised of two Malawian (one female master’s student and one male researcher employed by the Research Institute who sponsored the study) and two white British women both from the UK. Our levels of education, sex, economic position and race (in the case of EM and EEMP) are likely to have shaped our interactions with the participants. MMP interviewed some of the female participants and were a mixed team when we conducted the female workshops. As a research team, we all have significant experience of conducting research (three of the four researchers with more than 10 years each). Following each interview and at the end of each day of the PWs, we held debriefing sessions. During these sessions we reviewed emerging findings and identifying areas requiring further exploration. We also focused on how participants responded to the questions and whether we may have influenced this.

Data analysis
Data were analysed using a thematic analysis. Audio recordings were transcribed verbatim, translated into English, and imported into NVIVO V.10 software to facilitate organisation and analysis. Transcripts were read and reread for familiarisation. Transcripts were then coded inductively. MMP and EEMP each coded an initial sample of transcripts, before comparing interpretations, and merging their separately generated coding frames. We used the merged coding frame to code further transcripts, iteratively modifying the frame as new data were analysed. We had frequent debriefing sessions to ensure we agreed with interpretation of the data and analysis summaries.

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Patient involvement
Patients were involved in the design of the PWs. The methodology allowed for participants to take the lead and decide on which exercises would be used during the days. We also involved patients in deciding how to disseminate findings.

RESULTS
A total of 11 men and 12 women participated in the PWs and we conducted 30 interviews (15 men and 15 women); table 1 provides a breakdown of demographic details of participants.

| Table 1 | Participant demographics |
|---------|--------------------------|
| **Characteristics** | **Category** | **Number** |
| Gender | Male | 15 |
| | Female | 15 |
| Age | 18–34 years | 15 |
| | 35 and above years | 15 |
| Education | No school or primary level | 22 |
| | Secondary level | 6 |
| | College level | 2 |
| Occupation | Piece work (brick laying, moulding bricks, etc) | 10 |
| | Self-employed (tailoring, welding/fabrication, painting businesses, etc) | 5 |
| | Petty trading (selling tomatoes, charcoal, etc) | 12 |
| | No occupation (looking for job) | 3 |
had contrasting views about who was responsible for the survival of the household. Nearly all men saw their labour as vital, but some women also described the key role their businesses played in generating income.

All the participants described economic instability in their households. Most men worked in ganyu or casual ‘piece work’ (examples of these roles include moulding or bricklaying, off-loading trucks or ploughing fields). Ganyu labour was physically demanding, very poorly paid and rarely secured beyond a single day. Most of the female participants engaged in small business that generated some income, but success depended on accessing capital and profits were often precarious.

In households in Bangwe, managing food insecurity was central to many household decisions. Men argued that insufficient household income constrained their agency to seek care because missing work would lead to short-falls in income and a lack of food. Most participants rented and the pressure to pay rent was often a further cause of tension. Both men and women, described how stressful—and at times hopeless—the grinding poverty they experienced in their day-to-day lives made them feel. This is represented in the quote below:

> It’s been a very difficult life because nothing works to our plans. Whatever we do now is just so we have food for the day. When we go to bed, we don’t know what tomorrow holds for us, what we are going to eat […] it’s very challenging […] now is about month end and the landlord will soon be asking for his money. [Male participant, IDI018]

While treatment at the Ministry of Health-operated Bangwe Health Centre was free, men still articulated that seeking care placed an economic burden on the household and the economic instability of relying on casual labour left men and families in extremely challenging economic situation. For example, visiting the hospital ran the risk of losing income for the day:

> The challenge with piece works is you can’t go to the hospital when you are unwell because going to the hospital means you won’t be able to make money, and if you won’t be able to make money, you won’t eat […] So, wondering what you are going to eat if you miss work you go to work despite being sick. If you depend on business for food for the day, it means you have you have to go to town even when you are sick. [Male participant, IDI019]

Similarly, insecurity of casual employment meant that workers had no formal rights, including no provision for sick leave, ganyu workers without legal protection. If men took time off to seek care, they also faced the threat of their work being terminated. In the quote below, the male participant discusses how continual absences due to ill-health could mean a loss of their job.

> […] most companies don’t pay you when you miss a day of work. If you are sick and want to go to a clinic,
it’s very hard for them to allow you time off. You may take a day off on your own without permission, hoping that you will show them a medical report, but most employers don’t accept that. They shout at you, insult you, and cut your pay […] my colleague at work developed a heart failure problem because of being in contact with chemicals. His heart wasn’t functioning properly, and every week he would have a day off work. This caused him to have problems with his bosses to a point that they sacked him. [Male participant, IDI017]

During the PWs with men, the relational aspects of employment were raised by the group. When men did not go to work due to sickness, they described being disciplined by their employers. In one scene, men acted out an exchange between a bwana (the boss) and a man requesting time off because they are sick. The bwana was extremely rude to the man and told him not to return to work if he went to the hospital. Such restricting labour conditions create barriers to early care seeking for men with symptoms of TB.

Gendered social norms
Gendered hierarchies shaped men’s well-being and lives in complex ways. Men’s decisions around their health were shaped by the precarious economic position of households in Bangwe. However, broader social norms also shaped men’s behaviour. Enduring illness and suffering in silence was one-way man could demonstrate strength to himself and others. Men described needing to present as themselves as strong not just in their household and workplace but also to the wider community. These masculine beliefs of stoicism also appeared in perceptions of women as being more vulnerable to sickness and had weaker immunity. The quote below may likely be allegorical, referring to a broader range of illnesses than just a stubbed toe:

[…] I could say his blood is different from mine. When he stumbles so much blood comes out but the toe does not take many days to heal. But when I stumble my toe takes one or two weeks to heal. [Female participant, IDI011]

Ideas of men being more resilient to illness also appeared to be linked to perceptions about illness and severity. Men described a pattern of waiting and seeing if their condition worsened before they sought care, and only going to formal healthcare when illness was at an advanced stage. In ability to physically carry on particularly to go to work prompted seek care. Further, if the illness episode continued for a longer period of time, it signalled severity and stimulated decisions about seeking care.

[…] if there’s ever been a time that I was seriously sick then it is now. Other than this time, I have never been sick to a point where I could just stay indoors. Whenever I am sick, usually it’s diarrhoea and it doesn’t last, maybe only for 2 days, and I still go to town […] [Male participant, IDI009]

Use of complementary medicine to biomedical care
The decision to seek medical care was also shaped by the belief in a higher power and a predetermined path. As one male participant said, ‘I will just stay at home; if it’s death so be it, it’s God’s will if I die’. The fatalistic statement reflects a sense of spirituality that embraces death and illness as God predestined, and thus disputes the relevance of seeking medical attention.

Some men and women described attending churches where seeking biomedical care violated the doctrine of the church. They reported pastors operating in the area who would heal patients and discourage them from further engagement in biomedical care. The following quotes demonstrates the complex interactions between church and faith healing shape, and health-seeking behaviour.

Pastors tell patients to stop treatment and believe that they will be healed after praying for them. They also tell people not to go to the hospital when sick instead they should just believe [in God]. [Female participant PW005]

Further, participants also discussed people diagnosing and treating illness using traditional techniques, and cited dependence on traditional healing as preventing people from using formal health services.

Another problem that stops people from visiting the hospital is belief in traditional medicine. There are people that trust traditional medicine and oppose seeking treatment from the hospital. [Male participant, PW003]

Gendered power relations and the household
The ideas of power and household dynamics were explored in the workshops with women, being asked to make images (still body sculptures) of men who live in Bangwe. The women created images either of men at work or at leisure. This was in contrast to images women made of themselves either performing household work or praying. The images of men alluded to higher literacy levels, access to free time and money either buying alcohol or praying. The images created reveal rigid gendered divisions of labour where the man hold both the responsibility to provide for the family, but also the freedom for leisure time in ways he enjoys.

During the workshops, men and women’s decision-making power within the household was often discussed. The centrality of men’s power over women, was both overtly, and covertly articulated, with women more financially dependent for their survival and the survival of their children. Women described how their economic dependency left them vulnerable to violence, which could take different forms but included emotional, economic or physical violence. This was initially hard to talk about, and not directly mentioned; but after a role play that featured...
violent physical responses from husbands, participants began to share the risks they might face. This in itself is indicative of the unspoken power that men often hold.

One aspect we centred discussion was whether women could discuss their husband’s health with him, and whether they could suggest taking action, such as going to the clinic to seek treatment for a persistent cough. Both men and women described how the ability to discuss their husband’s health and decision-making depended on the dynamics of the relationship. For some women and men, asking their husband about his health or advising them could lead to angry exchanges, as men perceived taking advice could put them in a weaker position:

[...] You don’t have to listen to a woman every time she suggests something to you. Sometimes you have to ignore what she says. If she talks to you [about seeking treatment] and you listen, she doesn’t take you seriously or respect you anymore, she puts a ‘hedge around you’ and commands you at will. Once she commands you, you are no longer respected as a man. So you need to be stubborn a bit, showing you’re a man. [Male participant, IDI024]

Due to the economic dependency of the household, women also articulated their concern about men seeking care and missing work, as this would have a further impact on the family.

If we have children and the husband has been sick maybe for a week, you say this man needs to go and work. Maybe [because] you have gone days without eating and the bodies are weak [...] this happens in families. For instance, my husband may come back from work feeling really sick with body pains, but if you ask him if he’ll go to work, he says, ‘I will go, should I just stay here at home?’ [...] [Female participant, PW011]

However, both male and female groups referred to the changing roles of women in the household in Malawi that were challenging traditional notions of power and household decision-making roles. The increasing number of women in urban Bangwe owning small businesses gave them an independent income and brought greater decision-making power. This is articulated in the quote below:

Women are also making decisions in the household when they have access to finances, but those that are dependent on men easily accept [whatever their male partner decides] [Female participant, PW015]

Constraints in the health system

Previous encounters at the health centre, often left men feeling angry and marginalised. Long waiting times, poor treatment by healthcare staff and chronic shortage of medicines drove men to seek delay care or seek out alternatives. Men and women were particularly angry at how clinicians treated them, at best they saw health workers as rude and dismissive and at worst, violent. Examples of the cruel treatment included scoffing or ignoring patients and not allowing patients to explain their illness:

Sometimes doctors are not speaking politely, they are harsh and treat you as though you were not humans. Some of them go out to chat to each other, where they laugh and do things of their own. Like today, as we were collecting drugs, one of them said, “You men are looking at me! You should look down. Why are you looking at me?! Some of you do not bath!” You find people swearing: “I should come here again?!” [Female participant, IDI001]

The lack of drugs, long waits and short consultations often impacted on men’s decision to seek care. Men were unhappy about committing to spending a day going to the clinic when they could buy drugs from the grocery store and return to work.

...people feel discouraged by what happens at the clinic: “I should go there, climb that hill, just so they can give me Bactrim?” Because you expect to get better treatment when you go there: “I thought they were going to inject me.” But they only give you Panadol when you go there. So you say “I just wasted my time last time, it is better that I buy from the shops.” [Female participant, IDI013]

The organisation of the clinic, including specific treatment days and separate lines, particularly for HIV also made men fearful of seeking care, as they were concerned they would be identified and treated differently in the community. Bangwe health centre is at the top of a steep hill and many participants had to walk long distances and climb a steep hill. If they wanted to use transport, this would further impact the household finances:

Sometimes the challenge is transport, you can’t walk to the clinic, so you just sit at home. If you have some money, you are able to visit the clinic, because there are lots of minibuses or bicycle taxis out there. [Male participant, IDI024]

It is important to note some men and women only trusted the government hospitals to provide the correct diagnosis.

[...] the hospital is where you can get a diagnosis of your sickness. Because on your own you might think it is TB yet it’s something else showing symptoms of TB. [...] you might be sick and still be unaware of what you are sick with. [Male participant, IDI008]

Interventions to improve men’s pathways to care

In this section we present findings around interventions identified by participants during the PW to improve men’s pathways to care. The suggestions from participants included: labour rights legislation; patient welfare support system; and drawing on local leadership to encourage men to seek care.
As we have demonstrated above, men’s pathways to care are shaped by complex intersecting inequalities, with poverty intersecting with gendered social norms to shape many decisions. Working conditions associated with temporary work—including the absence of sick leave and lack of labour law protections—and the fear of losing vital income and dismissal from work were all important factors in shaping care-seeking behaviour. For these work-related barriers participants proposed improved employment legislations that provided and safeguarded rights for workers.

We feel that the government should provide and stiffen laws against bosses that subject their workers to maltreatment so that if they are found ill-treating the workers they should be punished. Also, the government should ensure that all workers are on medical scheme like MASM, and it should be compulsory that each and every worker should be under a medical scheme [Male participant, PW002]

Trust in the health system and concerns about the way health practitioners treated patients shaped decisions to seek care. One intervention proposed to address this barrier was the establishment of a reporting system where patients could report their concerns about healthcare workers. Suggestions made by participants included a toll-free line or a welfare office where patients could report maltreatment.

We’re thinking that maybe setting up offices right at the health facility where people could forward their complaints to the senior clinic staff. There should be toll free numbers to call the senior members of staff. The senior staff would then figure out how to help you. The other thing is punishing the doctors, maybe ill-treatment might stop. [Male participant, PW006]

During the workshops, participants described how reliance on faith healing and traditional medicine acted as a barrier to seeking the ‘right’ care. This framing was presented by participants as a problem that needed to be dealt with. This may in part have been a response to the researchers’ positionalities—coming from a well-known health research organisation. Some participants suggested punitive measures, with chiefs imposing fines on people who use non-biomedical services. However, other participants argued that educationally oriented interventions that would foster gradual cultural reforms and adoption of formal health practices and behaviours. One of the suggestions that came out was implementing public awareness campaigns and civic education programmes on health matters.

I believe that each one of us have their own traditions. So, we cannot leave something that is deep rooted in our society. Just deciding from nowhere that we have a decree that no one should ever use traditional medicine. I’m thinking of education so that we gradually move away from it [informal health practices] rather than introducing laws. Sometimes that’s when people do it more when it’s prohibited. While people are using traditional medicine, those that know about modern medicine should with evidence civic educate those that don’t know. Then people will on their own start using these helpful methods. Laws are good indeed but sometimes do not work. [Male participant, PW004]

Financial support for seeking medical care commonly emerged as most suitable for addressing the economically related barriers. Opportunities for support included the government and NGO partners as potential sponsors. They felt the money would compensate transport costs and loss of income that people normally incurred when accessing the clinic.

Refunding the money patients spend on transport to the clinic could help with the problem of people not visiting the clinic when they are sick. Like for me today I would not have come had my wife not told me that you were going to refund my transport fee. I was encouraged by the news of the refund… So, if you refund transport, it will help to some degree. [Male participant, IDI002]

Participants also explored different ways in which communities could establish their own social safety nets without dependence on external support. They considered a village fund where villagers contributed a small amount as one of the ways of organising safety nets.

[…] encouraging chiefs to set up small funds where all the members of the community contribute K20 even K50 or K100. We can manage that amounts. So when someone is in need we should use the money to get them to the hospital. Rather than waiting for an ambulance from the office. Because sometimes it becomes difficult for the ambulance to come. [Male participant, PW002]

Participants also considered outreach services as an alternative strategy to increase access to healthcare for men, this would take away one of the financial barriers:

Another way would be seeing people in their homes because some don’t have means of transport and struggle to get to the clinic. So meeting and speaking to them in their homes might help. [Male participant, IDI002]

**DISCUSSION**

Our study which drew on qualitative and participatory research methods and found care seeking decisions for men were shaped by gender power relations which intersected with economic instability within the household and insecure employment. Food insecurity was a significant and ongoing concern for all household members, but for men their gendered roles and viewing themselves as providers within the household were performed through significant delays in care seeking. Family structures often meant that women depended on men’s labour...
and speaking to them directly about care-seeking was challenging. Urban capitalism, which was introduced by the British colonial rulers reconfigured family structures and increased women’s reliance on men’s wage labour. Employment rights were very weak, and left men with little opportunity to take sick leave to visit the clinic. Weaknesses and constraints within the health system further exacerbated men’s delays in seeking treatment.

Drawing on a participatory methodology allowed participants and researchers to work together to cocreate interventions. Key interventions to address barriers to care seeking identified and developed by PW participants included interventions at the individual level and the broader structural level. At the individual level, interventions included changing behaviour through targeted civic education programmes directed at men to encourage them to seek biomedical care. At the structural level, interventions included improved labour regulations, including protection from dismissal if men did seek care, and payment of sick leave. The need for somewhere to take their grievances such as the labour office were seen as important to ensure compliance by employers. Safety nets system that supported households when a household member was sick to allow them to seek care was also identified as a priority.

The Gender Inequality Index demonstrates that Malawi is a very unequal country with men favoured in a range of indicators. Men are afforded more power and privilege than women, with greater access to education and financial resources. However, this has not translated into better health outcomes. This reflects global trends from UK, to Central Asia and Southern Africa of men delaying healthcare seeking that echoed our own findings. In the literature on TB, findings from ethnographic research undertaken in Khayelitsha Cape Town, which found a range of factors shaped men’s care and adherence to treatment, lack of food and economic constraints were identified reflecting those found in our study. In Kenya, ethnographic work found that treatment seeking was delayed by individual, social-cultural and structural factors. Chikovore et al. in urban Blantyre that men’s need to be perceived as strong shape men’s care and adherence to treatment, lack of food and economic constraints were identified reflecting those found in our study. In Kenya, ethnographic work found that treatment seeking was delayed by individual, social-cultural and structural factors.

Experiences and contextual factors shaped men’s health and TB seeking behaviour, and potentially contribute to high levels of ongoing transmission in these settings: precarious socioeconomic conditions; gendered social norms; and constraints in the health system. Insecurity of day labour with no provision for sick leave; pressure to provide for the household and a gendered desire not to appear weak and a severely under-resourced health system all contributed to men delaying care seeking. Interventions identified and developed by participants included targeted civic education programmes, improved patient–provider relations within the health system and legislation to ensure worker rights to sick pay, and broader social support for households.

In summary, by generating knowledge and understanding with community members in urban Blantyre, Malawi, we identified three interconnected thematic areas that shaped men’s health and TB seeking behaviour, and potentially contribute to high levels of ongoing transmission in these settings: precarious socioeconomic conditions; gendered social norms; and constraints in the health system. Insecurity of day labour with no provision for sick leave; pressure to provide for the household and a gendered desire not to appear weak and a severely under-resourced health system all contributed to men delaying care seeking. Interventions identified and developed by participants included targeted civic education programmes, improved patient–provider relations within the health system and legislation to ensure worker rights to sick pay, and broader social support for households.

**Study limitations**

The study had a number of limitations. First, there were limitations to the way participants were identified and recruited. By recruiting participants through screening women at Bangwe clinic we may only have included those groups who had the economic means to visit the clinic and may have missed poorer and groups that were more difficult to recruit. Second, we were not able to include all participant from the first phase of the study into the next phase and included additional participants through snowballing. The iterative nature of the two-stage approach was to allow participants time to reflect on the study questions, by only including some of the participants in the second stage this may have meant participants were more inhibited in what they shared.

In summary, by generating knowledge and understanding with community members in urban Blantyre, Malawi, we identified three interconnected thematic areas that shaped men’s health and TB seeking behaviour, and potentially contribute to high levels of ongoing transmission in these settings: precarious socioeconomic conditions; gendered social norms; and constraints in the health system. Insecurity of day labour with no provision for sick leave; pressure to provide for the household and a gendered desire not to appear weak and a severely under-resourced health system all contributed to men delaying care seeking. Interventions identified and developed by participants included targeted civic education programmes, improved patient–provider relations within the health system and legislation to ensure worker rights to sick pay, and broader social support for households.
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Patient consent for publication Not required.

Ethics approval Participants provided informed consent, either written or witnessed thumbprint. Consent was taken at the start of each interview and at the start of the week of participatory workshops and reviewed each day with participants. Ethical approval for the study was granted by the University of Malawi College of Medicine and the Liverpool School of Tropical Medicine Research Ethics Committee.

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Data availability statement Data are available upon reasonable request. The data supporting results of this study will be available on request from the Malawi Liver Wellcome Trust Clinical Research Programme’s data department by emailing this address: sdsdm@lwmw.mw. We do not intend to make the data publicly available because the consent from our participants and approvals from the ethics committees did not cover data sharing.

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