University students’ understanding and perceptions of schizophrenia in the UK: a qualitative study

Charlotte Cadge, Charlotte Connor, Sheila Greenfield

ABSTRACT

Objective To explore lay understanding and perceptions of schizophrenia in university students.

Design Qualitative study using semi-structured interviews and thematic analysis.

Setting The University of Birmingham, West Midlands.

Participants 20 UK home students of white British (n=5), Indian (n=5), Pakistani (n=5), African Caribbean (n=4) and dual white British and African Caribbean ethnicity (n=1).

Results Findings revealed a lack of knowledge about schizophrenia, particularly the negative symptoms that were not mentioned. There were mixed ideas on the causes and sources of available help for schizophrenia; however, positively many said they would consult their general practitioner. While there was a general misconception among the students that schizophrenia caused multiple personalities and was a dangerous illness, there were some differences in perceptions and understanding between ethnic groups, with more Indian students perceiving upbringing as a causal factor in the development of the illness and more Pakistani students perceiving possession by a spirit as a cause.

Conclusions The university students interviewed lacked knowledge about schizophrenia and stigma was widespread, both of which may delay help-seeking. Public health campaigns educating young people about schizophrenia are required to improve early identification and intervention and improve outcomes. Further research exploring ways to effectively tackle stigma is also required.

INTRODUCTION

Schizophrenia is a mental health condition which significantly alters a person’s perception, thoughts, mood and behaviour. There are a variety of ‘positive symptoms’ where a change in behaviour or thought occurs, such as hallucinations and delusions, as well as ‘negative symptoms’ where there is a lack of or withdrawal of a function expected in a healthy individual, such as emotional apathy and social withdrawal.

While there is currently no cure for schizophrenia, early diagnosis and management are key to improving long-term outcomes. However, many are diagnosed and therefore treated over a year after the onset of psychotic symptoms. This is due to, at least in part, poor help-seeking in those experiencing the symptoms of schizophrenia, which may be attributed to poor mental health literacy or fear of the stigma attached to the disease. Delayed help-seeking increases the duration of untreated psychosis (DUP), leading to an increased risk of suicide, lower levels of recovery and poorer treatment outcomes.

Mental health literacy refers to ‘knowledge and beliefs about mental disorders which aid their recognition, management or prevention’. This includes the ability to recognise disorders, obtain relevant information and seek appropriate help. Insight into lay mental health literacy for schizophrenia is therefore important in identifying potential barriers to early consultation and diagnosis. Public health campaigns and education aiming to combat these potential barriers may help to improve earlier consultation and therefore reduce DUP. Our recent investigation of poor help-seeking and long DUP resulted in Birmingham and Solihull Mental Health Foundation Trust implementing a Psychosis...
Aims
The primary aims of the study were

► To explore lay perceptions of the term schizophrenia in UK university students.
► To explore university students’ understanding of the symptoms and treatment of schizophrenia and who to consult.

The secondary aim of the study was to explore the impact of ethnicity on perceptions and understanding of schizophrenia.

Methods
Participants
Participants were recruited from a convenience sample of students at the University of Birmingham. International students were excluded in order to focus on UK perceptions. In order to focus on lay perceptions, students with a close friend or family member with schizophrenia or those studying psychology or a course in the College of Medicine and Dentistry were also excluded. White British, Indian, Pakistani and African Caribbean students were recruited, as the four most prevalent ethnicities in the UK. This was to allow for exploration of differences between ethnicities but is also representative of the West Midlands, which is the second most ethnically diverse area in the UK after London.

Recruitment
The study was advertised through flyers, which were distributed by hand on the university campus, and also through posts on a number of University of Birmingham Facebook groups. The study was advertised as looking at mental illnesses in general to ensure participants did not need schizophrenia prior to the interview. Interested students were emailed an information sheet and eligibility questionnaire, which included questions on the student’s gender, age, religion, course studied, ethnicity as based on census classification, and information on whether a close friend or family member of theirs had a mental illness. This ensured participants fulfilled the eligibility criteria and allowed purposive sampling based on ethnicity and gender. Where multiple students with the desired characteristics were interested, the first to return the eligibility questionnaire was selected. Due to difficulties recruiting sufficient numbers of each ethnicity, snowball sampling was also employed to recruit one student each of Indian and Afro-Caribbean ethnicity, with participants asked if they knew of students with the desired characteristics to take part. Twenty students were interviewed, which is in line with sample size recommendations for a study of this type to allow for data saturation to occur.

Data Collection
Face-to-face, semi-structured interviews were used due to the sensitive nature of discussing perceptions of mental illnesses and to distinguish individuals’ baseline knowledge. Interviews took place in a private room at the University of Birmingham Medical School throughout February and March 2017 with no repeat interviews undertaken. All interviews were conducted by CCa, a white British female medical student intercalating in Public Health and Population Sciences. Interviews ranged between 15 and 46 min with a mean average of 25 min. The researcher knew none of the participants prior to study initiation. A topic guide (online supplementary file 1), generated using relevant literature, was used to ensure consistency across interviews and ensure key areas were covered to meet the study objectives. The topic guide was piloted in university students known to the researcher to ensure
the ease of understanding. Data from pilot interviews was not included in analysis. Written informed consent was obtained prior to starting each interview. Following each interview, participants received a £15 Amazon voucher in appreciation of their time and the interviewer took field notes to record emerging ideas and aid later interpretation of transcripts.

Data analysis
Data was thematically analysed with codes and themes identified inductively, on the basis of the data.24 Interviews were audio-recorded and transcribed verbatim by the researcher, with audio recordings listened back to in order to ensure transcripts were correct. Field notes were then reviewed and transcripts read twice for familiarisation.24 Following familiarisation open coding was done manually, with codes written in the printed transcript margin. Codes were further refined as the analysis progressed and sorted into categories and themes with the aid of mind maps and a Microsoft Excel spreadsheet. No new codes or categories emerged in the final two transcripts, confirming data saturation was met across the data set.25 Codes were entered into a Microsoft Excel spreadsheet per participant to allow deviant cases to be identified and allow comparisons to be made between participants and ethnicities.

To ensure quality and rigour of the analysis process, analyst triangulation occurred.26 Two transcripts were independently coded by SG, an experienced qualitative researcher, who met with CCa to discuss and agree on analysis and identified codes. The researchers further met to discuss interpretation of codes and subsequent refinement of themes to ensure these were appropriately and clearly defined. Additionally, each participant was emailed a summary of the main themes and points emerging from their individual interviews for member validation.25 Nineteen participants responded (95%), all stating they were a correct interpretation of their viewpoints, further substantiating data analysis.25 Throughout data collection and analysis, the researcher worked reflexively, being particularly sensitive to the potential impact on participants of talking to someone from a different cultural background.

Patient and public involvement
The public were not involved in the development of the research question, study design or recruitment of participants. Participants were emailed a summary of the themes from their interview and an initial manuscript at a later date.

RESULTS
Pseudonyms are used in the place of participant names alongside quotations to maintain confidentiality. The 20 students interviewed ranged in age from 18 to 22. Five students of white British, Indian and Pakistani ethnicity were interviewed. Due to difficulties in recruitment, only four African Caribbean students were recruited and one participant of dual white British and African Caribbean ethnicity. Six religious groups were represented with Christian, Jewish, Muslim, Sikh, Hindu and atheist participants. Information about the gender and religious views of participants within each ethnicity is given in table 1.

Five themes, each with subcategories, emerged from the data: lack of knowledge; causes of schizophrenia; help; effects of schizophrenia; stigma. Figure 1 summarises the themes with their corresponding sub-categories and the impact ethnicity had on these.

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>Women : men split</th>
<th>Religion represented</th>
</tr>
</thead>
<tbody>
<tr>
<td>White British</td>
<td>3:2</td>
<td>Christianity (2), Judaism (1), Atheism (2)</td>
</tr>
<tr>
<td>Indian</td>
<td>2:3</td>
<td>Islam (1), Sikhism (3), Hinduism (1)</td>
</tr>
<tr>
<td>Pakistani</td>
<td>3:2</td>
<td>Islam (5)</td>
</tr>
<tr>
<td>African Caribbean</td>
<td>3:1</td>
<td>Christianity (3) and Islam (1)</td>
</tr>
<tr>
<td>White British and African Caribbean</td>
<td>0:1</td>
<td>Christianity (1)</td>
</tr>
</tbody>
</table>

LACK OF KNOWLEDGE
Throughout the interviews, there was a general lack of knowledge when discussing all areas of schizophrenia, with misconceptions being common.

Unawareness
The majority of students had very little prior knowledge of schizophrenia with one student confusing it with Parkinson’s disease.

Isn’t it the illness where your hands shake uncontrollably? (Arjun, Indian)

Further, students lacked confidence in their perceptions about the illness and were often reluctant to answer.

If I’m wrong I wouldn’t be surprised. (Jack, white British)

Misconceptions
Nine students believed schizophrenia caused people to have ‘split’ or multiple personalities.

In terms of schizophrenia as a term, I really just understand it to be someone with like split personalities. (Keshini, Indian)

The perception of schizophrenia as something that ‘doesn’t exist’ was mentioned by seven students. This was partly attributed to its intangibility.

Cause people think it’s all in your head … maybe it doesn’t exist and you just need to get over it. (Emily, white British)
Both Indian and Pakistani students mentioned the perception of schizophrenia as ‘made up’ within the wider Indian and Pakistani community, which they partly put down to a lack of education of and exposure to mental illnesses in older generations.

In my community... they’re like this doesn’t exist ... it’s a white person thing. (Waqas, Pakistani)

**CAUSES OF SCHIZOPHRENIA**

The majority of students were unaware of the potential causes of schizophrenia when first asked. Beliefs about causes, with further prompting, are presented in table 2 along with numbers of students holding the belief, to demonstrate typicality of views.

Most students believed social circumstances or a biological component could cause schizophrenia and eight students believed personality characteristics could contribute, including being introverted or aggressive. Of the four students who believed upbringing could contribute, three were Indian.

While there were students of each ethnicity believing schizophrenia could have a spiritual cause, these were mostly of Pakistani heritage believing mental illnesses could be caused by possession by a ‘jinn’ (spirits found in Islamic and Arabic writings that are able to appear in human or animal form and possess humans). A number of these students further commented on how, while as a Muslim they believed mental illnesses could be caused by possession by a jinn, they also thought that mental illnesses are often confused with possession.

There’s a lot of confusion in our culture... I do believe that there are certain times when mental illnesses are seen to be possessions when they’re actually not. (Ibrahim, Pakistani)

Comment was also made on how ‘blaming’ possessions can be popular within the Indian community. This was believed to remove blame from the individual or their family through attributing an external cause and allowing a ‘quick fix’ through a ritual to remove the spirit.

I know in the Asian community if someone has mental illness they’ll be like oh it was something paranormal... they really push it as something external because I think it’s that fear that it is characteristic of you. (Anshula, Indian)

**SOURCES OF HELP**

On the whole, students were unaware of what help was available for schizophrenia. The need for expert help was emphasised by 17 students and the importance of social support was emphasised by 12 students. Many comments were made about difficulties in treating schizophrenia including issues with the current system within the National Health Service.

**Professional**

Sixteen students said they would consult their general practitioner (GP); however, a number of students said this was only due to a lack of alternative options. Many participants, especially of white British ethnicity, commented on
issues with the current healthcare system including GPs’ lack of expertise.

They don’t help … they’re kind of just the dispensers of the forms … they’re not the person who can actually help … they’re not specialized in mental health they’re specialized in oh you have a cold. (Grace, white British)

Five students said they would consult university services for help and 11 said they would research online for information about schizophrenia and sources of help.

On the internet you can find a lot of the NHS services. (Ibrahim, Pakistani)

All students perceived medication as helping in some way with comments made on how it can be reliable as a ‘proven’ treatment. Five students, however, also commented on issues associated with medication including negative effects and dependence.

I think medication kind of masks the issue rather than kind of trying to resolve where it started from… I think it’s very easy to get hooked. (Keshini, Indian)

Six students commented on the ineffectiveness of both medication and GPs, as being better suited to physical illnesses. Twelve students perceived therapy with psychologists or psychiatrists as the best help available due to their expertise.

With something that’s a mental illness there has to be some therapy from like experts. (Waqas, Pakistani)

### Table 2 Perceived causes of schizophrenia

<table>
<thead>
<tr>
<th>Cause of schizophrenia</th>
<th>Subcategory</th>
<th>Frequency stated</th>
<th>Supporting quotations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological</td>
<td>Genetic</td>
<td>16</td>
<td>‘I can’t help but think there might be a genetic component to it.’ (Harry, white British)</td>
</tr>
<tr>
<td></td>
<td>Neurological</td>
<td>7</td>
<td>‘I think there’s like a biological cause … like maybe to do with your brain functioning.’ (Serena, African Caribbean)</td>
</tr>
<tr>
<td></td>
<td>Drugs</td>
<td>2</td>
<td>‘I think schizophrenia is something which you can cause to yourself, perhaps through drug abuse.’ (Ibrahim, Pakistani)</td>
</tr>
<tr>
<td>Social circumstances</td>
<td>Traumatic event</td>
<td>9</td>
<td>‘I guess if someone’s been through something quite traumatic … then it could trigger it.’ (Noor, Pakistani)</td>
</tr>
<tr>
<td></td>
<td>Isolated</td>
<td>7</td>
<td>‘People who often just find themselves alone … that could lead to schizophrenia.’ (Tia, African Caribbean)</td>
</tr>
<tr>
<td></td>
<td>Upbringing</td>
<td>4</td>
<td>‘It depends what kind of environment you’ve been brought up in… I do know children who are kind of brought up in more kind of restricted environments that tends to bring about mental illness.’ (Anshula, Indian)</td>
</tr>
<tr>
<td></td>
<td>Social class</td>
<td>4</td>
<td>‘If you’re raised from a hard environment, working class say and you’re living a hard life just about getting by… that type of stuff could lead to it.’ (Waqas, Pakistani)</td>
</tr>
<tr>
<td></td>
<td>Pressure</td>
<td>3</td>
<td>‘I think high pressure could contribute to it.’ (Jack, white British)</td>
</tr>
<tr>
<td>Personality</td>
<td>Introvert</td>
<td>4</td>
<td>‘If you have the personality of someone who’s very alone … keeping alone and secluded I feel that could lead to schizophrenia.’ (Zahid, Pakistani)</td>
</tr>
<tr>
<td></td>
<td>Aggressive</td>
<td>3</td>
<td>‘If someone’s more towards the aggressive side, the angry side and stuff I think that contributes.’ (Michael, white British and African Caribbean)</td>
</tr>
<tr>
<td></td>
<td>Risk taker</td>
<td>1</td>
<td>‘If their personality involves being someone who takes risks… that would make them more likely to have it.’ (Ibrahim, Pakistani)</td>
</tr>
<tr>
<td></td>
<td>Spirits</td>
<td>7</td>
<td>‘As a Muslim we have to believe that jinns do exist and is something that can cause mental illnesses.’ (Zahid, Pakistani)</td>
</tr>
</tbody>
</table>

SOCIAL

Social support was perceived as key in helping someone with schizophrenia to recover or cope. Many students of each ethnicity believed religion could aid recovery through prayer, as well as providing hope and a wider...
support network. Moreover, four students viewed social support as more important than professional help.

I feel like medical intervention ... can't compare to the support of friends and family, I feel like that could be a more important medicine. (Eve, African Caribbean)

The importance of personal internal coping mechanisms was also discussed, with nine students, particularly four of Indian ethnicity, further discussing a desire not to consult due to the belief they could get over issues alone.

It’s all well saying I’d probably seek help but I honestly don’t think I would ... you think you’re strong enough to probably get over it yourself. (Keshini, Indian)

Lack of help
Many students commented on the lack of help available, perceiving schizophrenia ‘always there’ and difficult to treat, particularly in comparison to physical illnesses.

I’m not sure if it ... goes away like a cold that you have for 2 weeks, I think it’s something that you sort of always live with. (Eve, African Caribbean)

Effects of schizophrenia
Effects of schizophrenia were discussed including the expected signs and symptoms and characteristics.

Signs and symptoms
Perceived signs and symptoms are presented in table 3. On the whole students were unaware what specific symptoms were associated with schizophrenia with nine commenting on the lack of visible symptoms. Of the 20 students, 11 were aware of psychotic symptoms of either hallucinations, delusions or both. Many students associated schizophrenia with abnormal behaviour and mood swings, often alongside the idea of multiple personalities.

Characteristics
Those with schizophrenia were often viewed as dangerous, vulnerable and ‘out of touch’.

Dangerous
Thirteen students viewed those with schizophrenia as dangerous, associating the disease with ‘violence’ and ‘rage’. Four students additionally commented on how those with schizophrenia can harm and impact on others.

Table 3  Perceived signs and symptoms of schizophrenia

<table>
<thead>
<tr>
<th>Signs and symptoms</th>
<th>Frequency stated</th>
<th>Supporting quotations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hallucinations, including voices</td>
<td>9</td>
<td>‘I know it can cause you to have hallucinations so you see people, you might hear people who aren’t actually there.’ (Grace, white British)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>‘I think it’s when people have voices in their head.’ (Zahid, Pakistani)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>‘I know in some cases people hear voices.’ (Tia, African Caribbean)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>‘I can think of symptoms like one could be hearing voices or hallucinations.’ (Noor, Pakistani)</td>
</tr>
<tr>
<td>Delusions</td>
<td>3</td>
<td>‘I know you can think that you’re … being asked to do something.’ (Emily, white British)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>‘You maybe wouldn’t be able to differentiate from the thoughts inside your head.’ (Raj, Indian)</td>
</tr>
<tr>
<td>Not visible</td>
<td>9</td>
<td>‘You don’t know I might be having thoughts in my head like you can’t see that.’ (Grace, white British)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>‘It’s invisible in the sense that like just seeing the person you can’t really tell.’ (Eve, African Caribbean)</td>
</tr>
<tr>
<td>Abnormal behaviour</td>
<td>8</td>
<td>‘If I saw them on the road I’d expect them to be walking on the road where all the cars are or something like that.’ (Raj, Indian)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[I’d expect them to] go walk in front of a car or jump out of the window or turn on the fire or things like that.’ (Tia, African Caribbean)</td>
</tr>
<tr>
<td>Paranoia</td>
<td>4</td>
<td>‘Schizophrenia has a big connection to paranoia in my mind.’ (Ibrahim, Pakistani)</td>
</tr>
<tr>
<td>Mood swings</td>
<td>4</td>
<td>‘I’d expect like constant mood swings and like behaviour that you wouldn’t normally expect of that person.’ (Michael, white British and African Caribbean)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>‘At times be very calm, stoic, genuinely kind of happy almost and then other times for like the smallest stimuli be really erratic or angry or almost violent.’ (Toson, African Caribbean)</td>
</tr>
<tr>
<td>Talk to self</td>
<td>3</td>
<td>‘I’d expect erratic behaviour and maybe talking to themselves.’ (Tia, African Caribbean)</td>
</tr>
<tr>
<td>Fidgety</td>
<td>2</td>
<td>‘I seem to have the association of people with schizophrenia to be quite like fidgety.’ (Keshini, Indian)</td>
</tr>
</tbody>
</table>
I think schizophrenia if you describe it as a colour it’s like red so it’s just all about rage and stuff … and you know someone gets enraged they normally take it out on other people. (Waqas, Pakistani)

The perception was furthered by the common view of those with schizophrenia as erratic and not in control.

I would say [schizophrenia] is a stronger version of someone … who’s not really in control of their actions. (Raj, Indian)

**Vulnerable**

Nine students perceived those with schizophrenia as vulnerable, seeing schizophrenia as a challenging and frightening disease to go through. Moreover, seven students associated schizophrenia with isolation, perceiving those with schizophrenia as lonely and lacking support.

I’d expect them to be like quite isolated and just troubled. (Noor, Pakistani)

A number of students also viewed those with schizophrenia as insecure, with three students seeing an individual’s insecurities and fears as contributing towards causing the condition. Two students partly attributed individuals’ doubts about themselves to the stigma surrounding the disease and others’ negative perceptions.

I’d expect them to be quite nervous and not too sure of themselves. (Jack, white British)

**Out of touch**

There was also a view of those with schizophrenia as being ‘out of touch’ with the perception schizophrenia caused you to ‘lose yourself’.

As in they’re not really themselves… it’s not really them, that’s how I look at it. (Raj, Indian)

Seven students thought individuals would have a lack of awareness, particularly a lack of insight into their condition.

I think it can be a very confusing mental illness to go through, almost gives the impression there is no mental illness that it’s just you. (Harry, white British)

**STIGMA**

The majority of students saw schizophrenia as a very stigmatising condition with many negative connotations.

**Taboo**

Many students perceived schizophrenia as something that fails to be discussed in the community. This was partly attributed to the personal and private nature of the disease but also how mental illnesses, particularly schizophrenia, are often considered a ‘taboo’ topic.

In my friendship group … you don’t really talk about mental health … it’s almost like a taboo. (Grace, white British)

While students from all ethnicities saw schizophrenia as a taboo topic, particular comments were made regarding the fact it was not discussed within the Indian, Pakistani and African Caribbean communities.

I feel like mental illness isn’t really discussed much in like the black community. (Serena, African Caribbean)

Moreover, a number of Pakistani and Indian students commented on the perception of schizophrenia as something not to associate with, partly down to its impact on image and also the perception of individuals as dangerous.

The way I’ve heard about it is very much it’s a bad thing, don’t talk to so and so. (Anshula, Indian)

**Impacts on image**

Many students saw schizophrenia as having an impact on image or ‘status’ with six students perceiving it as a weakness. A number of students said they would be reluctant to tell anyone due to a fear of being judged.

I think it’s still considered like a badge of shame compared to other mental illnesses. (Harry, white British)

The impact on ‘status’ was particularly mentioned by Indian students, with three students seeing it as a reason to hide the disease. This was in part down to the perception of those with mental illnesses as unfit to be parents, and the idea that upbringing and parents can be to ‘blame’.

Marriage is such a kind of fundamental part of our culture, if someone isn’t kind of mentally healthy it kind of ruins their chances of getting married. (Anshula, Indian)

**Shocking**

Six students saw schizophrenia as something that shocks people with one student commenting on the fact they were taken aback when told the interview would be about schizophrenia. This was partly attributed to the perception of schizophrenia as scary, but also misunderstood, with people scared of what they don’t understand.

Even saying the word schizophrenia sort of takes you back every time you say it. (Keshini, Indian)

**DISCUSSION**

**Main findings**

This study highlighted a lack of knowledge and misconceptions about schizophrenia among the university students interviewed, a highly educated group of the population. While many students were aware of schizophrenia’s association with psychotic symptoms, there was no mention of
negative symptoms associated with the condition, which is consistent with previous research. Awareness of negative symptoms, such as social withdrawal or sleep disturbances, is particularly important as these symptoms can often be mistaken as usual young adult behaviour and delay help-seeking. Moreover, negative symptoms are often the first to occur in schizophrenia and can precede psychotic symptoms by a number of years, making their recognition particularly important for early intervention. Misconceptions about schizophrenia were common, with students associating it more with multiple personalities than any single symptom. This supports previous UK research, which found that multiple personalities was the most frequent association of schizophrenia. This common belief, alongside a lack of knowledge, may further contribute to delayed help-seeking due to confusion over the symptoms of schizophrenia and an inability to recognise its onset. Furthermore, associating schizophrenia with multiple personalities may contribute to ideas of unpredictability and danger, which have previously been found as the most prevalent negative associations of schizophrenia and were frequently mentioned in this study.

Most students perceived schizophrenia as stigmatising with perceptions of the disease as shocking and a weakness, impacting on image and status. Further, even in this highly educated cohort most students perceived schizophrenia as dangerous, with associations of violence and unpredictability, despite the fact most with schizophrenia are not violent or dangerous.

It was promising that the majority of students said they would consult their GP and correctly viewed schizophrenia as a serious disease requiring expert help. This goes against previous research, which showed many students were unaware of where to turn for help with mental illnesses and would prefer to talk to family and friends than medical professionals including GPs. Potential barriers to help-seeking included worries over, and negative perceptions of, GPs and medication. These worries were common and are consistent with our previous qualitative work with first-episode psychosis, where participants felt their GP would simply refer them on or prescribe drugs due to a lack of expertise. This perception may be further compounded by the common view that schizophrenia is especially difficult to treat and ‘always there’ despite evidence showing a significant proportion of treated cases achieve favourable outcomes and even full recovery. The belief schizophrenia does not exist or is ‘all in your head’ is a particularly important perception that emerged from this study which may further delay medical consultation, alongside the belief individuals can ‘get over it alone’.

The students we interviewed included participants from four different ethnic groups. Confusion between mental illnesses and possession by spirits and stigma were things that were of relevance to the Indian and Pakistani students we interviewed. Stigma within the community was particularly relevant to those of Indian heritage who talked about how they felt the illness could impact on marriage prospects. Family upbringing was also seen by this group as playing a significant role in the development of schizophrenia, which may reveal an extension of courtesy stigma to the wider family. This is in line with previous research, which has found stigma to be so extreme within Asian communities that it impacts on the entire family’s marriage prospects. In this study, a number of Indian and Pakistani students further commented on the perception of schizophrenia as something not to associate with. Societal stigma can be a particular barrier to early consultation due to those with schizophrenia concealing symptoms or failing to seek help due to embarrassment or shame. Further, it may prevent individuals seeking support from their family and peers. While previous research has found profound community stigma within the African Caribbean community there was less comment on this within this study. Comment was made, however, on the perception of schizophrenia as a more ‘taboo’ topic within each of the minority ethnic groups, which may further prevent people seeking support.

Contrary to previous research, ethnic background did not have an impact on awareness of signs and symptoms or available help. This may be partly down to the higher educational attainment of participants, or differences in the way this was explored in previous studies, which mostly analysed preformed responses to vignettes. It is important to note that while differences were found between ethnicities variation was also apparent within ethnic groups. For example while a number of Pakistani students believed jinns could cause schizophrenia, not all did. Therefore, while differences in perceptions should be taken into consideration, it is essential not to generalise or stereotype.

**Strengths and limitations**

To the best of our knowledge, this study is the first in-depth exploration of perceptions of schizophrenia within the UK since 1999 and the first qualitative study of UK university students. This is a key strength of the research as interviews allow exploration of knowledge and provided further insight into perceptions of schizophrenia and the complexities surrounding its stigma, including the perception of schizophrenia as ‘made up’. Further strengths include the use of member validation, cross-checking of analysis by an experienced qualitative researcher and the fact data saturation of themes was met. Our success in recruiting similar numbers of each ethnicity is an additional strength; minority ethnic groups are often under-represented in healthcare research.

However, there are also a number of limitations. Participants were recruited from one setting and all in higher education. While qualitative research does not aim to be generalisable, education and age have been shown to impact on mental health literacy. This suggests there could be lower levels of knowledge about schizophrenia in the wider population. Additionally, the study was advertised as looking at mental illnesses, which could result in
the students interviewed having greater interest in and knowledge about mental illnesses and schizophrenia. The use of snowball sampling could have further led to similarities between participants within ethnicities and potential bias. It is important to note this study interviewed 20 students with a maximum of five from each ethnicity and therefore the views portrayed cannot be taken to reflect the views of entire communities. Finally, owing to some participants’ lack of knowledge about schizophrenia, interviews were as short as 15 min.

Research and policy recommendations

Further research involving participants with a range of educational levels would provide a better understanding of the level of public knowledge. This study, alongside previous research, does however demonstrate there are low levels of understanding. Campaigns educating the public are therefore crucial to improve knowledge which may aid earlier consultation. Educating the public and schools on the signs and symptoms of schizophrenia has previously proven successful in reducing duration of untreated psychosis when employed in Norway and Denmark. Education on availability of treatment and benefits of early intervention may further aid this.

Despite recent anti-stigma campaigns significant stigma was apparent. Further campaigns therefore require careful consideration, with research required into which strategies effectively reduce stigma associated with schizophrenia to aid successful future campaigns. Education and anti-stigma campaigns targeted to ethnicities may prove of use. Campaigns addressing the ‘taboo’ of schizophrenia in minority ethnic groups could allow earlier help-seeking and greater community support. Education within the Indian and Pakistani community on schizophrenia as a real illness separate to possession by a spirit could further increase understanding and support.

CONCLUSION

This study demonstrates the confusion and negative connotations surrounding schizophrenia in a selection of university students in Birmingham, UK. Public health campaigns to better educate them and the wider public about schizophrenia, including its symptoms, to aid early identification and intervention and improve outcomes is necessary. Further research is also required to design and develop effective strategies to tackle the stigma surrounding schizophrenia.

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Contributors CCa designed the study, wrote the study protocol, obtained ethical approval, undertook recruitment, carried out interviews, analysed the data and drafted the manuscript. SG provided expert supervision contributing to the study design, protocol and analysis through acting as the additional analyst. SG and CCo read through and edited the transcript. CCa also read through and edited the paper.

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