

Ethnic inequalities in the use of secondary and tertiary mental health services among patients with obsessive-compulsive disorder

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Background

Obsessive-compulsive disorder (OCD) has similar prevalence rates across ethnic groups. However, ethnic minorities are underrepresented in clinical trials of OCD. It is unclear whether this is also the case in clinical services.

Aims

To explore whether ethnic minorities with OCD are underrepresented in secondary and tertiary mental health services in the South London and Maudsley (SLaM) NHS Foundation Trust.

Method

The ethnic distribution of patients with OCD seen between 1999 and 2013 in SLaM (n = 1528) was compared with that of the general population in the catchment area using census

data. A cohort of patients with depression (n = 22716) was used for comparative purposes.

Results

Ethnic minorities with OCD were severely underrepresented across services (-57%, 95% CI -62% to -52%). The magnitude of the observed inequalities was significantly more pronounced than in depression (-29%, 95% CI -31% to -27%).

Conclusions

There is a clear need to understand the reasons behind such ethnic inequalities and implement measures to reduce them.

Declaration of interest

None.

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Obsessive-compulsive disorder (OCD) has similar prevalence rates across the World.^{1,2} Within Western countries, including the UK, the prevalence of OCD has been shown to be roughly consistent across ethnic groups. For example, the Ethnic Minority Psychiatric Illness Rates in the Community (EMPIRIC) study^{3,4} examined the prevalence of mental disorders across adult British White, Black Caribbean, Indian, Pakistani, Bangladeshi and Irish ethnic groups. A similar point prevalence of OCD of around 1% was found across all ethnicities. Heyman et al⁵ conducted a nationwide (UK) epidemiological survey to establish the prevalence of OCD in young people aged 5-15 $(n>10\,000)$ and reported a significantly greater proportion of children from ethnic minorities among those with OCD (24%) compared with healthy controls (8.8%) and psychiatric controls (7.4%). Given the similar, if not higher, prevalence of OCD across ethnic groups in Britain^{3–5} and elsewhere,⁶ a proportional representation of different ethnic groups would be expected in mental health services. However, there is substantial evidence to indicate that patients from ethnic minorities, both children⁷ and adults,⁸ tend to be underrepresented in mental health services in Britain, although data specifically relating to OCD is lacking. Research conducted in North America suggests that patients with OCD from ethnic minorities are underrepresented in clinical trials. Williams et al⁹ reviewed 21 randomised controlled trials of OCD conducted in North America and found that ethnic minorities were seriously underrepresented in such studies (91% of participants were White). As OCD has rarely been studied separately, there is little data relating specifically to ethnic inequalities in access to clinical services of this major, yet treatable, psychiatric disorder. The overall aim of the present study was to explore whether individuals with OCD from ethnic minorities are underrepresented in secondary and tertiary clinical services within a large mental health trust in South London, relative to the ethnic composition of the corresponding catchment area. We also aimed to determine

whether ethnic inequalities, if found, are restricted to a particular age group (children ν . adults) or type of clinical service (community mental health clinics ν . specialist clinics) or specific to OCD (compared with depression).

Method

Study setting

The South London and Maudsley (SLaM) NHS Foundation Trust is Europe's largest specialist mental healthcare trust. It serves a population of approximately 1.2 million residents of four South London boroughs: Lambeth, Southwark, Lewisham and Croydon. A proportion of SLaM services are tertiary care national referral units, ¹⁰ including three national specialist clinics for OCD: the Clinic for Young People with OCD and Related Disorders (Maudsley Hospital; child and adolescent out- and in-patients), the Centre for Anxiety Disorders and Trauma (CADAT; Maudsley Hospital, adult out-patients) and the Anxiety Disorders Residential Unit (ADRU; Bethlem Royal Hospital, adult in-patients).

The SLaM Biomedical Research Centre (SLaM BRC) Case Register is a data resource containing de-identified electronic records of all secondary and tertiary mental healthcare service users from SLaM. The Clinical Record Interactive Search (CRIS) is a program which automatically and effectively de-identifies full clinical records derived from the electronic clinical records system in SLaM, 11 enabling researchers to search and retrieve de-identified data from these electronic medical records that include over 180 000 individuals. Of these, approximately 35 000 are receiving active care from SLaM at a given time. CRIS was established in 2006 but contains some information that goes back to 1999 as, at its implementation, data from previous electronic records were migrated into the system. The protocol for this case register has been described in detail elsewhere. 10 CRIS has been used in

numerous research studies. ^{12–15} CRIS was approved as a data-set for secondary analysis by Oxfordshire Research Ethics Committee C (reference 08/H0606/71). Approval for the present study was sought and obtained from the CRIS Oversight Committee.

Participant cohorts

Diagnoses recorded in CRIS are based on the ICD-10¹⁶ and reflect diagnoses assigned in routine practice by clinicians within SLaM. For the present study, the variable that defined the main cohort was at least one diagnosis of OCD (F42; either as primary or secondary diagnosis) made during the study period (1999–2013). In order to test the specificity of the results for OCD, we also defined a cohort of patients with at least one diagnosis of a depressive episode or recurrent depressive disorder (F32–F33) during the study period. All individuals with OCD or depression were included, regardless of comorbidity.

Other relevant variables were retrieved for both cohorts of participants, including ethnic background, date of birth, date at diagnosis, clinical services where they had been seen and postcode. In order to avoid the identification of individuals, only the month and year of birth (but not the day) and the first part of the postcodes corresponding to the broad geographical area (but not the second part that normally corresponds to a street, part of a street or single address) are available in CRIS. These variables are routinely recorded on SLaM electronic patient records in designated fields. For the OCD cohort, individuals were classified as currently being seen (or last contact) by local community services or at any of the three above-mentioned national, specialist OCD services.

Participants in all cohorts who did not have information about their ethnic background (i.e. value for the variable was missing or coded as 'not stated') were excluded from the analyses. Those who were from outside the catchment area (i.e. coming from other London boroughs or other locations in the UK) were also excluded in order to allow a fair comparison with the population data from the local catchment area.

Ethnic groupings

The ethnic composition of the population covered by SLaM (London boroughs of Lambeth, Southwark, Lewisham and Croydon) during the studied time frame (i.e. 1999–2013) was obtained from the London 2001 Census¹⁷ and the London 2011 Census. As the 2011 Census contained a slightly higher proportion of ethnic minorities, compared with the 2001 Census (45% in 2011 ν . 34% in 2001), 10,18 we averaged the number of inhabitants from each ethnic group in the two Censuses to obtain a more accurate approximation of the population composition during the 14-year study period.

Ethnic groupings in both Censuses are virtually identical, with the exception that the Chinese group was included under the category 'Any other group' in the 2001 edition and moved to the 'Asian' category in the 2011 Census. 17,18 For the purposes of this study, we operationalised the ethnicity variable to match the ethnic groups as defined by the London 2011 Census (i.e. the Chinese group was included in the Asian group). Ethnic classification is fraught with problems as country of origin is compared with skin colour. Both the Censuses and CRIS use a detailed classification, but in order to make a direct comparison, we collapsed these categories. The five different categories encompassing the 15 ethnic groups included in CRIS were the following: (a) White (including British, Irish and any other White background groups); (b) Mixed/multiple ethnic groups (including White and Black African, White and Asian, and any other mixed background groups); (c) Asian/Asian British (including Indian, Pakistani, Bangladeshi, Chinese and any other Asian background groups);

(d) Black/ African/Caribbean/Black British (including African, Caribbean and any other Black background groups); and (e) any other ethnic group.

Data analyses

Data from CRIS was retrieved in March 2013 and downloaded onto a spreadsheet for data analyses. Frequencies and percentages for each ethnic group were calculated in all cohorts of clinical diagnoses. Next, the number of new mental health service users per 100 000 inhabitants year was calculated for each cohort during the 14-year time frame. For example, there were 1188 new White OCD service users from an average population of 696 836 White inhabitants during the 14-year period. Thus, 1188 new service users/696 836 inhabitants/14 years \times 100 000 = 12.2 new White service users with OCD per 100 000 inhabitants year. Finally, the numbers of new mental health service users per 100 000 inhabitants year from each ethnic minority were compared with that of the White group by calculating the per cent difference and its confidence interval.

Results

Ethnic distribution in OCD

A total of 2677 patients meeting ICD-10 criteria for OCD were identified in the CRIS records. Of these, 235 did not have information about their ethnic background (missing or coded as 'not stated') and were excluded from the analyses. Another 914 individuals were from outside the catchment area and were also excluded. Thus, a final sample of 1528 individuals with OCD was included in all further analyses (Fig. 1).

Table 1 and Fig. 2 show the ethnic composition of the OCD cohort as well as the ethnic composition of the catchment area based on the 2001–2011 censuses. Overall, there was an obvious discrepancy in the proportion of patients with OCD who were White *v*. Black and minority ethnic (BME) in the CRIS register (78% *v*. 22%, respectively), compared with the expected proportions in the catchment area (60% *v*. 40%, respectively).

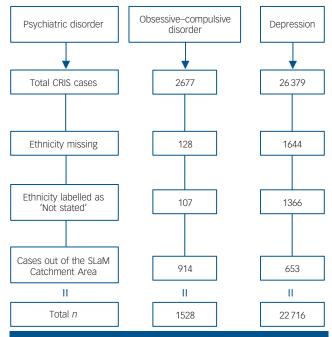


Fig. 1 Selection of participants with obsessive–compulsive disorder and depression.

Individuals with the ethnic group missing or not stated, as well as those out of the South London and Maudsley (SLAM) NHS Foundation Trust catchment area were excluded. CRIS, Clinical Record Interactive Search.

			(%) <i>u</i>			
				ICD-10 psychiatric disorder		
			Obsessive	Obsessive-compulsive disorder (F42)		
Ethnic group	Average population in the SLaM catchment area during the studied time frame ^a	All services, community and national and specialist services	Community services	Child and adolescent national and specialist services (only SLaM area)	Adult national and specialist services (only SLaM area)	Depression (F32–F33)
White	(0.09) 9839 (90.0)	1188 (77.7)	774 (76.6)	166 (80.2)	248 (79.7)	15 429 (67.9)
Black and minority ethnic	463 752 (40.0)	340 (22.2)	236 (23.3)	41 (19.8)	63 (20.2)	7 287 (32.2)
Black	269 279 (23.2)	129 (8.4)	90 (8.9)	17 (8.2)	22 (7.1)	3 945 (17.4)
Asian	107 867 (9.3)	89 (5.8)	62 (6.1)	11 (5.3)	16 (5.1)	1173 (5.2)
Mixed	65 000 (5.6)	31 (2.0)	21 (2.1)	1 (0.5)	9 (2.9)	267 (1.2)
All other ethnicities	21607 (1.9)	91 (6.0)	63 (6.2)	12 (5.8)	16 (5.1)	1 902 (8.4)
a. Percentages do not always add to 100.0% because of rounding. b. Average of the London 2001 and 2011 Census Includes bornuich	a. Percentages do not always add to 100.0% because of rounding. h. Awarage of the London 2001 and 2011 Census. Includes boroughe of Lewisham. Crowdon Southwark and Lambeth	Southwark and Lambath				

This same pattern was observed independently of the type of clinical setting, whether the individuals were treated in community clinical services (Tier 3) or in child and adolescent or adult national and specialist services (Tier 4) (Table 1).

Table 2 shows the number of new service users per 100 000 inhabitants year by ethnic group in both the White and BME groups. The per cent difference in relation to the reference (White) ethnic group in the use of services is also shown for each ethnic group. The number of new service users with OCD per 100 000 inhabitants year was 57% (95% CI 51.5-61.9%) lower in the BME group compared with the White group (Table 2). This pattern was particularly pronounced for patients from Black (-71.9%, 95% CI -76.6 to -66.3%) and Mixed (-72.0, 95%)CI -80.4 to -60.0%) backgrounds, and somewhat less pronounced in patients from Asian backgrounds (-51.6, 95% CI-61.0 to -40.0%). The findings were largely constant across different types of clinical settings, with substantially lower proportions of patients in the BME group in community services, child and adolescent national and specialist services, and adult national and specialist services (Table 2).

Ethnic distribution in depression

The psychiatric control cohort consisted of a total of 22716 individuals with depression (Fig. 1). The proportion of each ethnic group in this comparison cohort is shown in Table 1 and in Fig. 2. Table 2 shows the number of new service users with depression per 100 000 inhabitants year by ethnic group, and the per cent difference in relation to the reference (White) group. The number of new service users with depression per 100 000 inhabitants year was also lower in the BME group than in the White group (29%, 95% CI 27.0–31.0 lower).

Discussion

Main findings

The present study aimed to explore whether individuals with OCD from ethnic minorities were underrepresented in secondary and tertiary care clinics of a large mental health trust, compared with the ethnic distribution of the local catchment area. In line

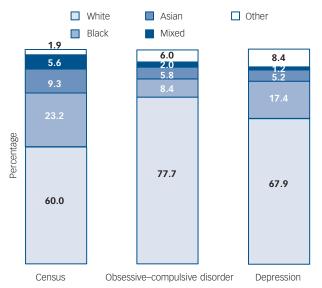


Fig. 2 Ethnic distribution of the population of the South London and Maudsley (SLaM) NHS Foundation Trust catchment area (Censuses 2001 and 2011) and obsessive—compulsive disorder and depression service users during the 14-year time frame: 1999–2013.

Percentages do not always add to 100.0% because of rounding.

Table 2 Foundatio	Table 2 New service users per 100 000 inhabitants year in the different services for obsessive—compulsive disorder (OCD) and depression in the South London and Maudsley (SLaM) NHS Foundation Trust and per cent difference of the Black and minority ethnic group in relation to the reference (White) ethnic group	100 000 inhabit ifference of the	tants year in the di 9 Black and minorit	ifferent service ty ethnic groug	es for obsessive–o o in relation to the	compulsive dis reference (W	sorder (OCD) and d /hite) ethnic group	lepression in tl	he South London	and Maudsley (SLaM) NHS
						ICD-10 psy	ICD-10 psychiatric disorder				
					Obsessive-compulsive disorder (F42)	sive disorder (F4	42)			Depression	Depression (F32–F33)
	Average population in the		All services, community and national and specialist services	Commun	Community services	Child and add and spec (only S	Child and adolescent national and specialist services (only SLaM area)	Adult nationa services (or	Adult national and specialist services (only SLaM area)		
	SLaM catchment area during the studied	_	New service Per cent difference in New service Per cent difference Per cent difference in New service Per cent difference Per cent	New service users per 100 000	Per cent difference in relation to the White	New service users per 100 000	Per cent difference in relation to the White	New service users per 100 000	Per cent difference in relation to the White	New service users per 100 000	Per cent difference in relation to the White
Ethnic group	time frame ^a	inhabitants year	inhabitants year ethnic group (95% CI) inhabitants year	inhabitants year	ethnic group (95% CI)	inhabitants year	ethnic group (95% CI)	inhabitants year	ethnic group (95% CI)	inhabitants year	ethnic group (95% CI)
White	96 836	12.2	I	7.9	I	1.7	-	2.5	-	158.2	_
Black and minority ethnic	463752	5.2	-57.0% (-61.9 to -51.5%)	3.6	-54.2% (-60.4 to -47.0%)	9.0	-62.9% (-73.6 to -47.8%)	—	-61.8% (-71.1 to -49.7%)	112.2	-29% (-31.0 to -27.0%)
a. Average of	a. Average of London 2001 and 2011 Censuses. Includes boroughs of Lewisham, Croydon, Southwark, and Lambeth.	ses. Includes borough	hs of Lewisham, Croydon,	, Southwark, and La	ımbeth.						

with our clinical impression and data from North American clinical trials,⁹ the results confirmed that individuals from ethnic minority groups were significantly underrepresented in this clinical population. This is at odds with the fact that OCD is at least as prevalent in individuals from ethnic minorities as it is in the White majority.^{3–5}

The observed inequalities were not specific to a particular age group (child and adolescent v. adult services) or type of service (community v. national specialist services), although the overrepresentation of people from White backgrounds was slightly higher in national and specialist services. The fact that underrepresentation of patients from ethnic minority backgrounds was comparable in community and national specialist clinics suggests that there are no specific barriers associated with the complexities of national specialist services; rather, the barriers seem broader and apply to secondary and tertiary mental health services in general. Because our catchment area is particularly rich in ethnic minorities (60% v. 86% White people in the SLaM catchment area compared with the whole of England and Wales), 19 our results may not generalise to other parts of the UK. However, our findings are well in line with other studies that have found that ethnic minorities are underrepresented in mental health services across Britain, 7,8 as well as in the USA. 20-24

Overall, our findings are partially consistent with those of a study by Manseau & Case²⁴ who found that non-Hispanic Black individuals were treated markedly less frequently than their White counterparts for anxiety disorders – particularly OCD – as well as for dysthymia, personality disorders, nicotine use disorder, and attention-deficit hyperactive disorder in adult out-patient physician offices and hospital-based clinics in the USA. However, comparisons between the two studies are difficult because of context differences (i.e. USA ν . UK) and the inclusion of different ethnic groups (i.e. White non-Hispanics, Black non-Hispanics and Hispanics).

Interestingly, the observed ethnic inequalities were significantly more pronounced in OCD compared with the depression control group, highlighting important challenges that seem specific to OCD. Depression may be more visible and easily detected or may be linked to increased risk of self-harm or suicide, potentially promoting referral to mental health services.

Possible explanations for the ethnic differences

The reasons why patients with OCD from ethnic minorities are so clearly underrepresented in our clinical population are unknown. The ethnic differences in prevalence ratios are too modest to explain the inequalities in the use of services and access to treatment. Possible explanations include that OCD is perceived by ethnic minorities as being a less impairing disorder so they do not seek help for its symptoms. However, there is little evidence to date that would indicate this. Alternatively, it is also possible that the embarrassing and sometimes taboo nature of the symptoms in OCD may be associated with higher levels of shame and stigma in some ethnic groups because of the way they perceive psychiatric services, making it more difficult for people with OCD to seek help. It is also possible that the explanatory models (i.e. patient's understanding of the illness) of the patients from ethnic minorities may well be different and these need to be explored further. It is possible that some ritualistic behaviour may get subsumed under religious rituals and thus not be seen as clinical problems. Furthermore, individuals from ethnic minorities may be more likely to seek help from resources other than mental health services (for example elder relatives, religious institutions or community) or the way they come into contact with services may vary.²⁵ Urgent research is needed on pathways into secondary and tertiary care for these conditions to determine where and when help is sought. Future research should also investigate if the inequalities reported here are also present in primary care settings.

The low number of referrals to secondary and tertiary mental health services in the ethnic minority groups could be because of primary care clinicians not detecting the symptoms of OCD in this population. Although, as already mentioned, rates of OCD across ethnicities may be similar, some reports, specifically focused in the Black minorities, suggest that their clinical presentation might be slightly different. $^{26-28}$ Himle $et\ al^6$ found that Black Americans were more likely to have a later age at onset (31.8 years v. 19.5 years in the general population). They also found that once Black patients met criteria for OCD, they were very unlikely to experience remission, partly because of the limited access to state-of-the-art treatments. Sussman²⁹ pointed out that patients who present with less common OCD symptoms may not be identified. It is possible that some ethnic groups (mostly the Black group) with the most severe form of the disorder, especially those with uncommon symptoms, may be misdiagnosed as psychotic.^{30,31} Similarly, Williams and colleagues³² have also found differences in the clinical presentation of the symptoms, with African Americans reporting greater concerns about contamination on OCD inventories. However, one would expect this symptom would be as easily detected in the Black ethnic group as it is among White patients.

In addition to possible referral barriers and differences in presentation among ethnic minority groups, it is possible that obstacles exist in accurate diagnosis post-referral to secondary and tertiary mental health services. Williams *et al*³³ suggested that ethnic minority participants may answer questions about symptoms in a different way in the presence of a therapist from a different ethnic background. For example, Williams & Turkheimer³⁴ found that, in an OCD assessment study, African American participants expressed significantly more washing concerns in the presence of a Black experimenter than a White experimenter. Similarly, Malgady & Constantino³⁵ found that ethnic and language matching of patient and clinician promoted improved clinical judgements of psychopathology severity for Hispanic patients. Hence, an ethnic mismatch of patients and clinicians may decrease identification of OCD.³³

In their systematic review, Williams *et al*⁹ concluded that, as ethnic minorities were underrepresented in North American OCD trials, it is actually not known if empirically validated treatments are effective for these groups. To date, only two small studies have compared OCD treatment outcomes across ethnic groups^{36,37} and, although both concluded that patients from ethnic minorities benefited from treatment as much as the White majority groups, further research with larger and representative samples is warranted.

Implications

The current study has a number of important implications for clinical practice, health policy and future research. Our findings should inform efforts to reduce racial/ethnic disparities in OCD diagnosis and access to treatment. To date, clinicians and policymakers have had very little information about disparities in diagnoses and treatment of minority groups. Efforts should be made to ensure sensitivity to differing cultural values about mental health and to encourage symptom recognition and helpseeking behaviours by these populations. However, improving access to secondary and tertiary mental health services among ethnic minority groups will be facilitated by better understanding the barriers that currently exist. There is currently little research in this field. As pointed out by Hunt et al, 23 it is critical to determine whether there are differences in beliefs about mental healthcare and treatment preferences across different ethnic groups. If these differences exist, they could partially explain the gap in care

between minority and non-minority populations. However, if the differences in illness perceptions and help-seeking behaviours are small or do not exist, then it becomes crucial to seek out, understand and eventually eliminate the barriers to achieving more equitable care. Further studies should focus on the reasons for these ethnic inequalities in order to ensure a good quality of mental healthcare across all ethnic groups.

Limitations

First, because the cohorts were not actively followed up, we cannot fully exclude potential confounding factors such as patients from ethnic minorities deciding to be treated in other parts of London or in private health providers more frequently than White patients, although this seems unlikely. Second, as our data ranged from 1999 to 2013, we used the average of the London Census 2001 and 2011 to compare its ethnic composition against the ethnic composition of all the selected cohorts of clinical diagnoses in CRIS. The use of the most recent Census only would not have reflected the ethnic change of the population across the years and pooling both Censuses seemed the best approximation. It is also worth noting that, although both the Censuses and the NHS records aim to collect self-assigned ethnicity, the lists of available ethnic categories in CRIS, as well as the ethnic categories in the two different Censuses, are not identical. Third, it is likely that not all patients that were seen in the Trust from 1999 to 2005 - before CRIS was formally introduced were included in the system, but only those whose mental health service had implemented an independent electronic system whose electronic records were migrated into the system (for more details, see Stewart et al 10). However, in our view, there is no reason to think that this would affect the validity of our results. Fourth, it is likely that most of the diagnoses were assigned based on clinician's judgement and not on a structured instrument. However, this would be true for OCD and also for depression. Also, in the case of OCD, an underrepresentation of ethnic minority groups was found across settings, which suggests these groups are less likely to be diagnosed independently of clinician biases. Fifth, we did not have data on socioeconomic status. For example, some studies have found higher rates of depression in ethnic minority groups particularly when socioeconomic status is not controlled for (for example see Stockdale et al³⁸). Hence, the reported ethnic inequalities may in fact reflect more general socioeconomic status inequalities. Finally, the ethnic background was missing or 'not stated' for a proportion of participants with OCD (8.8%) and depression (11.4%). It is possible that the likelihood of stating one's ethnic group may vary according to ethnicity, with more individuals from ethnic minorities electing not to state their ethnicity. However, on reanalysis of the data with the assumption that all those that did not state their ethnicity were from ethnic minority groups, the direction of our results did not change (i.e. compared with the White group, the BME group was still underrepresented in both OCD (-43.5%) and depression (-15.7%).

In summary, the current study provides concerning evidence that individuals with OCD from ethnic minority groups are significantly underrepresented in secondary and tertiary mental health services. These findings highlight the urgent need to understand the barriers that exist to ethnic minority groups accessing these mental health services in order to facilitate the development of effective strategies and policies for reducing inequalities.

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References

- Fontenelle LF, Mendlowicz MV, Versiani M. The descriptive epidemiology of obsessive-compulsive disorder. *Prog Neuropsychopharmacol Biol Psychiatry* 2006; 30: 327–37.
- 2 Ruscio AM, Stein DJ, Chiu WT, Kessler RC. The epidemiology of obsessive-compulsive disorder in the National Comorbidity Survey Replication. *Mol Psychiatry* 2010; 15: 53–63.
- 3 Weich S, Nazroo J, Sproston K, McManus S, Blanchard M, Erens B, et al. Common mental disorders and ethnicity in England: the EMPIRIC study. Psychol Med 2004; 34: 1543–51.
- 4 Sproston K, Nazroo J. Ethnic Minority Psychiatric Illness Rates in the Community (EMPIRIC) - Quantitative Report. The Stationery Office, 2002.
- 5 Heyman I, Fombonne E, Simmons H, Ford T, Meltzer H, Goodman R. Prevalence of obsessive-compulsive disorder in the British nationwide survey of child mental health. Br J Psychiatry 2001; 179: 324–9.
- 6 Himle JA, Muroff JR, Taylor RJ, Baser RE, Abelson JM, Hanna GL, et al. Obsessive-compulsive disorder among African Americans and blacks of Caribbean descent: results from the National Survey of American Life. Depress Anxiety 2008; 25: 993–1005.
- 7 Goodman A, Patel V, Leon DA. Child mental health differences amongst ethnic groups in Britain: a systematic review. BMC Public Health 2008; 8: 258.
- 8 Cooper C, Spiers N, Livingston G, Jenkins R, Meltzer H, Brugha T, et al. Ethnic inequalities in the use of health services for common mental disorders in England. Soc Psychiatry Psychiatr Epidemiol 2013; 48: 685–92.
- 9 Williams MT, Powers M, Yun YG, Foa E. Minority participation in randomized controlled trials for obsessive-compulsive disorder. J Anxiety Disord 2010; 24: 171–7
- 10 Stewart R, Soremekun M, Perera G, Broadbent M, Callard F, Denis M, et al. The South London and Maudsley NHS Foundation Trust Biomedical Research Centre (SLAM BRC) case register: development and descriptive data. BMC Psychiatry 2009; 9: 51.
- 11 Fernandes AC, Cloete D, Broadbent MT, Hayes RD, Chang CK, Jackson RG, et al. Development and evaluation of a de-identification procedure for a case register sourced from mental health electronic records. BMC Med Inform Decis Mak 2013; 13: 71.
- 12 Chang CK, Hayes RD, Perera G, Broadbent MT, Fernandes AC, Lee WE, et al. Life expectancy at birth for people with serious mental illness and other major disorders from a secondary mental health care case register in London. PLoS One 2011; 6: e19590.
- 13 Wu CY, Chang CK, Hayes RD, Broadbent M, Hotopf M, Stewart R. Clinical risk assessment rating and all-cause mortality in secondary mental healthcare:

- the South London and Maudsley NHS Foundation Trust Biomedical Research Centre (SLAM BRC) Case Register. *Psychol Med* 2012; **42**: 1581–90.
- 14 Hayes RD, Chang CK, Fernandes A, Broadbent M, Lee W, Hotopf M, et al. Associations between substance use disorder sub-groups, life expectancy and all-cause mortality in a large British specialist mental healthcare service. Drug Alcohol Depend 2011; 118: 56–61.
- 15 Chang CK, Hayes RD, Broadbent M, Fernandes AC, Lee W, Hotopf M, et al. All-cause mortality among people with serious mental illness (SMI), substance use disorders, and depressive disorders in southeast London: a cohort study. BMC Psychiatry 2010; 10: 77.
- 16 World Health Organization. International Statistical Classification of Diseases, 10th revision (ICD-10). World Health Organization, 1992.
- 17 Office for National Statistics. Census 2001: Key Statistics for Urban Areas in England and Wales. Office for National Statistics, 2004.
- 18 Office for National Statistics. Census 2011: Key Statistics for Local Authorities in England and Wales. Table KS201EW: Ethnic Group, Local Authorities in England and Wales. ONS, 2012 (http://www.ons.gov.uk/ons/rel/census/2011-census/ key-statistics-for-local-authorities-in-england-and-wales/rpt-ethnicity. html).
- 19 Office for National Statistics. Ethnicity and National Identity in England and Wales 2011. ONS, 2012 (http://www.ons.gov.uk/ons/rel/census/2011-census/ key-statistics-for-local-authorities-in-england-and-wales/rpt-ethnicity.html).
- 20 Alegria M, Canino G, Rios R, Vera M, Calderon J, Rusch D, et al. Inequalities in use of specialty mental health services among Latinos, African Americans, and non-Latino whites. *Psychiatr Serv* 2002; 53: 1547–55.
- 21 Breslau J, Kendler KS, Su M, Gaxiola-Aguilar S, Kessler RC. Lifetime risk and persistence of psychiatric disorders across ethnic groups in the United States. Psychol Med 2005; 35: 317–27.
- 22 Wang PS, Lane M, Olfson M, Pincus HA, Wells KB, Kessler RC. Twelve-month use of mental health services in the United States: results from the National Comorbidity Survey Replication. Arch Gen Psychiatry 2005; 62: 629–40.
- 23 Hunt J, Sullivan G, Chavira DA, Stein MB, Craske MG, Golinelli D, et al. Race and beliefs about mental health treatment among anxious primary care patients. J Nerv Ment Dis 2013: 201: 188–95.
- 24 Manseau M, Case BG. Racial-ethnic disparities in outpatient mental health visits to U.S. physicians, 1993-2008. *Psychiatr Serv* 2014; **65**: 59–67.
- 25 Hatch SL, Thornicroft G. Report from England I: innovative approaches to reducing mental health disparities related to ethnicity. J Nerv Ment Dis 2012; 200: 843–6
- 26 Guarnaccia PJ. A cross-cultural perspective on anxiety disorders. In Cultural issues in the Treatment of Anxiety (ed S Friedman): 3–20. The Guilford Press, 1997
- 27 Hatch ML, Friedman S, Paradis CM. Behavioral treatment of obsessive-compulsive disorder in African Americans. Cogn Behav Pract 1997; 3: 303–15.
- 28 Karadag F, Oguzhanoglu NK, Ozdel O, Atesci FC, Amuk T. OCD symptoms in a sample of Turkish patients: a phenomenological picture. *Depress Anxiety* 2006; 23: 145–52.
- 29 Sussman N. Obsessive-compulsive disorder: a commonly missed diagnosis in primary care. *Prim Psychiatry* 2003; 10: 14.
- 30 Hollander E, Cohen LJ. Obsessive-compulsive disorder. In Anxiety Disorders in African Americans (ed S Friedman): 185–202. Springer, 1994.
- 31 Ninan PT, Shelton S. Managing psychotic symptoms when the diagnosis is unclear. *Hosp Community Psychiatry* 1993; 44: 107–8.
- 32 Williams MT, Proetto D, Casiano D, Franklin ME. Recruitment of a hidden population: African Americans with obsessive-compulsive disorder. *Contemp Clin Trials* 2012; 33: 67–75.
- 33 Williams MT, Domanico J, Marques L, Leblanc NJ, Turkheimer E. Barriers to treatment among African Americans with obsessive-compulsive disorder. J Anxiety Disord 2012; 26: 555–63.
- 34 Williams MT, Turkheimer E. The effects of interviewer race on anxiety in African-Americans. In *Leading-Edge Health Education Issues* (ed LV Sebeki). Nova Publishers, 2008.
- 35 Malgady RG, Costantino G. Symptom severity in bilingual Hispanics as a function of clinician ethnicity and language of interview. *Psychol Assess* 1998; 10: 120–7.
- 36 Friedman S, Smith LC, Halpern B, Levine C, Paradis C, Viswanathan R, et al. Obsessive-compulsive disorder in a multi-ethnic urban outpatient clinic: initial presentation and treatment outcome with exposure and ritual prevention. Behav Ther 2003; 34: 397–410.
- 37 Fernández de la Cruz L, Jassi A, Krebs G, Clark B, Mataix-Cols D. Phenomenology and treatment outcomes in children and adolescents from ethnic minorities with obsessive-compulsive disorder. *J Obsessive Compuls Relat Disord* 2015; 4: 30–6.
- 38 Stockdale SE, Lagomasino IT, Siddique J, McGuire T, Miranda J. Racial and ethnic disparities in detection and treatment of depression and anxiety among psychiatric and primary health care visits, 1995–2005. *Med Care* 2008: 46: 668–77.