

This is a repository copy of *The need for culturally competent care within gastroenterology services: Evidence from research with adults of South Asian origin living with inflammatory bowel disease*.

White Rose Research Online URL for this paper:  
<https://eprints.whiterose.ac.uk/161638/>

Version: Accepted Version

---

**Article:**

Mukherjee, Suzanne Kathleen Mary [orcid.org/0000-0002-9012-0369](https://orcid.org/0000-0002-9012-0369), Beresford, Bryony Anne [orcid.org/0000-0003-0716-2902](https://orcid.org/0000-0003-0716-2902), Atkin, Karl Michael [orcid.org/0000-0003-1070-8670](https://orcid.org/0000-0003-1070-8670) et al. (1 more author) (2020) The need for culturally competent care within gastroenterology services: Evidence from research with adults of South Asian origin living with inflammatory bowel disease. *Journal of Crohn's and Colitis*. jjaa117. ISSN 1876-4479

<https://doi.org/10.1093/ecco-jcc/jjaa117>

---

**Reuse**

Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

**Takedown**

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing [eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk) including the URL of the record and the reason for the withdrawal request.

1 **Title: The need for culturally competent care within gastroenterology services: Evidence**  
2 **from research with adults of South Asian origin living with inflammatory bowel disease**

3 Dr Suzanne Mukherjee.

4 Social Policy Research Unit

5 University of York

6 York

7 UK

8 Email: [suzanne.mukherjee@york.ac.uk](mailto:suzanne.mukherjee@york.ac.uk)

9

10

11 Professor Bryony Beresford

12 Social Policy Research Unit

13 University of York

14 York

15 UK

16 Email: [bryony.beresford@york.ac.uk](mailto:bryony.beresford@york.ac.uk)

17

18 Professor Karl Atkin

19 Health Sciences

20 University of York

21 York

22 UK

23 Email: [karl.atkin@york.ac.uk](mailto:karl.atkin@york.ac.uk)

24

25

26 Professor Shaji Sebastian  
27 Hull University Teaching Hospitals NHS Trust  
28 Hull  
29 UK  
30 Email: [Shaji.Sebastian@hey.nhs.uk](mailto:Shaji.Sebastian@hey.nhs.uk)

31

32

33 **Short title:** The need for culturally competent care within gastroenterology services

34

35 **Address for correspondence:**

36 Dr Suzanne Mukherjee.  
37 Research Fellow  
38 Social Policy Research Unit  
39 University of York  
40 York, YO10 5DD  
41 Email: [suzanne.mukherjee@york.ac.uk](mailto:suzanne.mukherjee@york.ac.uk)  
42 Tel: +44 (0) 1904 321950

43

44

## 45 **Abstract**

46 **Background and Aims:** It is widely acknowledged that the incidence of inflammatory bowel disease  
47 (IBD) is rising within South Asian populations, yet research into the experiences of this group of  
48 patients is rare. In this study the lived experiences of UK South Asian adults with IBD, including  
49 support from gastroenterology services, was investigated.

50 **Methods:** A sample of 33 patients representing the diversity of the UK South Asian population were  
51 recruited through 5 gastroenterology clinics in England. In-depth semi-structured interviews were  
52 conducted, audio-recorded, transcribed and analysed using the Framework approach.

53 **Results:** Although many experiences align with those of the general IBD population, participants  
54 believed that South Asian cultures and/or religions can led to additional challenges. These are linked  
55 to: family and friend's understanding of IBD; self and family attributions about IBD; stigma  
56 surrounding ill health; the taboo of bowel symptoms; managing 'spicy food'; beliefs about food and  
57 ill health; roles within the family; living with extended family; the use of complementary and  
58 alternative therapies; and visits to family overseas. Religious faith helped many to cope with having  
59 IBD, but symptoms could hamper ability to practice faith. Gastroenterology services were viewed  
60 positively, but unmet needs were identified, some of which were culturally specific.

61 **Conclusion:** Gastroenterology services have an important role to play in helping patients to  
62 overcome the challenges they encounter in their everyday life, both by providing individual patients  
63 with culturally appropriate care and advice, and via interventions to increase awareness and  
64 understanding of IBD within wider South Asian communities.

65 **Keywords:** Inflammatory Bowel Disease; South Asian; cultural competence

66

## 67 Introduction

68 Formerly considered a disease of developed countries <sup>1,2</sup> latest evidence indicates a worldwide  
69 increase in incidence of inflammatory bowel disease (IBD) and particularly within South Asian  
70 populations, both those living in South Asia <sup>3</sup> and, even more so, among those living in the UK.<sup>2,4,5</sup>  
71 Indeed, a recent study reports a higher incidence among some South Asian populations compared to  
72 the white British population.<sup>5</sup> Aside from in the USA, little is known about how IBD healthcare  
73 differs according to patient ethnicity,<sup>6</sup> but patients from minority groups typically experience poorer  
74 health outcomes, with difficulties accessing or using health care identified as a key factor  
75 contributing to this.<sup>7-9</sup> Changes in the prevalence of IBD and demography of patients observed in  
76 recent years <sup>1,2,10</sup> therefore requires a response from gastroenterology services.<sup>6,11</sup>

77

78 In the 1980s, the notion of 'culturally competent' care emerged <sup>12</sup> in response to observations of  
79 inequitable access to high quality health care. In essence, it involves clinicians being able to work  
80 and communicate effectively with people from cultural backgrounds different to their own<sup>13</sup> and is  
81 regarded as a core aspect of patient-centered care.<sup>14-16</sup> Whilst clinical guidance on the management  
82 of IBD highlights the importance of a patient-centred approach,<sup>17,18</sup> the need for culturally  
83 appropriate care does not routinely feature. However, the NICE 2019 Crohn's disease (CD)  
84 guidelines (<https://www.nice.org.uk/guidance/ng129>) do recommend that information and advice  
85 about the condition meets the cultural and linguistic needs of the local community. However,  
86 implementing such guidance is difficult if clinicians have an incomplete understanding of the way  
87 ethnicity and culture may affect patients' needs and preferences for care and support. Clinical  
88 commentaries are beginning to emerge. For example, a recently published paper by US  
89 gastroenterologists expressed concerns that clinicians do not reflect the ethnic profile of their  
90 patient population <sup>19</sup> and that this has implications for patient care. There are also a number of  
91 examples of guidance notes on stoma care for patients of different faiths.<sup>20-25</sup> Whilst useful in

92 awareness-raising, such advice is not grounded in research evidence on the lived experience of IBD.  
93 Existing evidence on IBD patients' views and experiences rarely includes participants from ethnic  
94 minority groups.<sup>26</sup> An exception is a small UK study of young adult IBD patients from minority  
95 ethnic communities, with the recruited sample predominantly Muslim male patients and therefore  
96 not representative of the wider UK South Asian IBD patient population.<sup>27</sup> It found that lack of  
97 understanding of IBD within the patient's immediate family and wider community led to feelings of  
98 isolation and inadequacy. For some, isolation was compounded by a desire to avoid gatherings  
99 where food with spices was being served. Other studies investigated specific issues including diet,  
100 use of complementary medicine, and information needs,<sup>28-30</sup> but all were conducted some years ago  
101 and are potentially outdated. Aware of the limitations of existing evidence, and given the rising  
102 number of South Asian patients in UK IBD clinics, we undertook a qualitative study to investigate the  
103 lived experiences of UK South Asian adults living with IBD. This paper reports our findings and  
104 considers their implications for culturally competent care within gastroenterology.

105

## 106 **Materials and Methods**

107 Methods are reported in line with COREQ reporting guidelines.<sup>31</sup> The study was approved by an NHS  
108 Research Ethics Committee (Ref 13/NE/0034).

109

### 110 **Study Aim**

111 The overall aim was to describe the lived experience of UK South Asian adults with IBD, including the  
112 support they receive from gastroenterology services, and to understand if and how ethnicity and  
113 culture impact on this.

114

## 115 **Study Design**

116 A cross-sectional qualitative research design was used, with data collected via in-depth, semi-  
117 structured interviews with adult South Asian patients with IBD. The study took an interpretative  
118 phenomenological analysis (IPA) approach.<sup>32, 33</sup> This approach is used when the objective is to  
119 understand and describe the lived experiences of individuals who share the characteristic or  
120 situation under investigation. The analytical stance is largely inductive and it is therefore particularly  
121 suited to understanding under-researched perspectives and phenomena.

122

123 To overcome known barriers to people with IBD taking part in research<sup>36</sup> and the wider fact that  
124 South Asian patients are less likely to be recruited to studies, study participants were able to express  
125 preference in terms of interviewer characteristics, including age, personal experience of IBD, gender,  
126 ethnicity, language. Further details on this approach are published elsewhere.<sup>37</sup>

127

## 128 **Sampling**

129 Qualitative research seeks to ensure that the study sample represents the full range of experiences  
130 possible with respect to the issue or topic under investigation<sup>34, 35</sup>, rather than generalisability as the  
131 term is understood in quantitative studies. We hypothesised the following characteristics may  
132 influence the lived experience of IBD and sought to ensure their representation in our sample: age,  
133 gender, type of IBD (ulcerative colitis, Crohn's disease), age ethnic group (i.e. Bangladeshi/British  
134 Bangladeshi; Indian/British Indian; and Pakistani/British Pakistani) and faith (e.g. Christian, Hindu,  
135 Muslim, Sikh). These factors comprised the study's sampling frame, and were the key characteristics  
136 by which, at analysis, we sought to compare experiences (Lindsay 2018). Decisions regarding target  
137 sample size (n=30-35) were guided by the sampling frame. Within this target, our aim in terms of

138 country of origin was: India (15), Pakistan (10) and Bangladesh (5). And for religion, Muslim (10),  
139 Hindu (10) and Sikh (5).

140

141 When interpreting and drawing implications from our data, we compared and located our findings  
142 within existing work on the lived experience of IBD by white Americans and Europeans, and other  
143 non-South Asian groups (e.g. Mexican American).

144

#### 145 **Recruitment**

146 Eligibility criteria were:

- 147 • confirmed diagnosis of IBD;
- 148 • 18 years or older;
- 149 • identify as being of South Asian origin (that is, come or descended from a South Asian country,  
150 i.e. Bangladesh, India, Pakistan or Sri Lanka).

151

152 Five gastroenterology services across England acted as Participant Identification Centres (PICs). They  
153 were purposively selected to represent services with small and large proportions of South Asian  
154 patients, and therefore different levels of experiences in supporting this patient group. PICS  
155 reviewed clinic lists to identify eligible patients. A total of 101 individuals were identified by the PICs  
156 and each received a recruitment pack – either during a routine clinic appointment or via post.

157 Recruitment materials were available in Bengali, Gujarati, Hindi, Punjabi, and Urdu. Staff involved in  
158 passing on recruitment packs had access to interpreting support. Individuals interested in taking  
159 part returned an Expression of Interest (EoI) form direct to the research team. The form also  
160 collected information on sampling characteristics and preferences regarding interviewer  
161 characteristics.



162

163 Forty-one people (40.6%) returned the EoI form. The sampling frame was used to identify  
164 individuals (n=32) to take forward to interview. Three declined to participate. Reasons were: family  
165 concerns that taking part would be too demanding; current ill-health; believing current good health  
166 meant they would have little to contribute.

167

168 This primary recruitment strategy (yielding 29 participants) was supplemented by recruiting a  
169 further 4 individuals who had directly approached the research team either through membership of  
170 the PAG (n=3) or via the project's webpage (n= 1). Using this additional recruitment strategy  
171 enabled a more complete representation in the study sample of characteristics set out in the  
172 sampling frame.

173

#### 174 **Data Collection**

175 Participants chose between a face-to-face (n=18) or telephone (n=15) interview. A topic guide was  
176 used to ensure consistent and comprehensive coverage of topic areas across all interviews. It was  
177 developed through an iterative process of consultation with clinicians and IBD patients. A key forum  
178 for this process was the Project Advisory Group.

179 Interviews explored:

- 180 • history of IBD and current health;
- 181 • day to management of IBD, and managing flare-ups;
- 182 • others' responses to diagnosis, treatment, and self-management;
- 183 • impacts of IBD and sources of support;
- 184 • using gastroenterology services;

- 185 • awareness and use of Crohn's and Colitis UK (research funders) (findings reported  
186 elsewhere)

187

188 For all the above topic areas, having described their experience, participants were asked to reflect  
189 on the extent to which they believed culture, faith, age and gender impacted these experiences. A  
190 simple visual aid (translated into all relevant languages) depicting the various life domains (e.g. my  
191 work, my relationship with my partner, leisure activities and hobbies etc.) facilitated discussions.  
192 Interviews lasted between 30 minutes and three hours. All but one was audio-recorded (with  
193 permission) and fully transcribed. Where consent was not given for audio-recording, detailed notes  
194 were made during and immediately after the interview. Where interviews were conducted in a  
195 South Asian language a written, English translation was generated by the interviewer focusing on  
196 conceptual rather than literal equivalence.<sup>38</sup>

197

## 198 **Data analysis**

199 A thematic analysis of the data was undertaken guided by the 'Framework' approach<sup>41</sup>, which  
200 supports robust and transparent management of data analysis process. Steps involved: data  
201 immersion; identification of themes; data reduction; data display; and analytical writing. Given the  
202 aims of the research, the focus of the analysis was on identifying and describing the ways that study  
203 participants perceived that aspects of their ethnicity (e.g. country of origin, faith, culture/traditions)  
204 affected their lived experience of IBD. A process of constant comparison<sup>40</sup> with the accounts of  
205 other study participants allowed us to explore and test whether accounts differed within and  
206 between ethnic groups, and the influence age and gender on those experiences. The thematic  
207 framework used to organise and interrogate the data is available (see Supplementary Figure 1).  
208 Supplementary Figure 2 provides a fuller account of the analytical process.

209

## 210 **Patient Involvement**

211 The Project Advisory Group (PAG) included seven South Asian IBD patients. We used meetings  
212 (n=2), email and telephone conversations to consult with them about the recruitment strategy  
213 and materials, interview topic guide, and data analysis and interpretation.

214

## 215 **Results**

216 We provide a brief overview of study participants before reporting our findings, which fall into  
217 three broad domains: the lived experience; the benefits and challenges of practising faith; and  
218 experiences of using gastroenterology services. Verbatim quotes are used to illustrate  
219 findings. To preserve anonymity, quotes are only identified by study ID, gender and age range.

220

### 221 **Study participants**

222 A total of thirty-three individuals (20 women, 13 men), aged 18 to 65 years, took part in the study.  
223 The sample reflected the ethnic diversity, and most common faith groups, found within the UK  
224 South Asian population<sup>42</sup>. Nineteen participants were born in the UK; the majority of the remainder  
225 were born in India, Pakistan or Bangladesh. Duration of diagnosis ranged from three months to 21  
226 years (median six years). Eighteen had Crohn's disease, fourteen had ulcerative colitis; and one had  
227 indeterminate colitis. For further details see Table 1-3

228

### 229 **The lived experience**

230 In this section participants' experiences in living with IBD are reported. This is divided into two  
231 parts. First, experiences shared with the wider IBD patient population. Second, experiences

232 which interviewees believed were due to, or intensified or exacerbated by, aspects of South  
233 Asian culture and religions.

234

235 ***Experiences shared with the wider IBD patient population***

236 In line with research on the wider IBD patient population<sup>26, 43, 44</sup> participants described how IBD  
237 symptoms caused challenges in many aspects of their everyday life, often recognising that  
238 these experiences were shared by IBD patients whatever their ethnicity.

239 *'I don't think it makes much difference whether you're Sikh or Indian or English or*  
240 *anything. Pain is pain at the end of the day'. [ID 8, Female, age group 45-65 years]*

241

242 All reported that flare ups were painful and exhausting. These symptoms, coupled with the need for  
243 frequent trips to the toilet, meant many described themselves as being housebound when flare ups  
244 occurred. In between, ongoing milder symptoms were reported. The majority of participants  
245 adhered to prescribed medication and used a range of strategies to manage or control symptoms  
246 such as excluding certain foods or limiting the amount they ate, lifestyle adjustments (e.g. changing  
247 job, slower paced life and exercise) and the use of complementary and alternative medicine.  
248 Immediate family were often a source of practical and emotional support. However, support from  
249 extended family was typically more limited due to geographical distance or them having caring, or  
250 other, responsibilities.

251

252 Despite the efforts made to manage their condition, and the support received from others, the  
253 negative impact of having IBD on emotional well-being was a dominant theme in interviewees'  
254 accounts. Feeling low, depressed or anxious added further to the difficulties people experienced so

255 that, even when symptom free, some curtailed their activities due to loss of interest or worries  
256 about the possibility of experiencing symptoms.

257 *‘“We’ve just left the house ten minutes ago, why couldn’t you have gone then?” “I*  
258 *didn’t need to go then, now I need to go ..” And then I’m in a panic even more because*  
259 *I think oh I’m not going to get to the toilet on the journey there .. so that makes me*  
260 *want to go even more. It might not be a flare up, I think it’s sort of probably*  
261 *psychological half the time’.* [ID1, Female, age group 25-44 years]

262

263 The combination of physical symptoms and emotional difficulties meant individuals struggled at  
264 times to maintain a social life, manage study, work and/or caring responsibilities, and/or  
265 relationships with partners. A few also reported financial difficulties. A very small minority spoke of  
266 times of intense despair and wanting to ‘give up’.

267

### 268 ***The impact of South Asian culture and religions on lived experiences***

269 Analysis of the data revealed eleven ways in which South Asian cultures and religions were identified  
270 by study participants as influencing the lived experience of IBD.

271

#### 272 ***Family and community members’ understanding of IBD***

273 Most participants felt they had a good understanding of IBD, often attributed to the advice and  
274 information provided by IBD clinic staff, but also linked to their own endeavours to seek out  
275 information. However, many reported family members – close or extended – misunderstood IBD.  
276 For some this remained an unresolved issue. A number of ethnicity-relevant factors were identified  
277 as contributing to this. First, the diagnostic label ‘Crohn’s’ may not have been assimilated into a

278 South Asian language. Second, the term ‘inflammatory bowel disease’ could cause confusion as the  
279 word ‘disease’ may hold different connotations in South Asian countries; for example, denoting  
280 infectious and/or life-threatening conditions.

281 *‘The first day I told my husband he was gobsmacked because he’s never heard of*  
282 *having a disease where you don’t end up dying’. [ID 10, Female, age group 25-44*  
283 *years]*

284

285 Interviewees believed these linguistic issues were compounded by the fact that, compared to the  
286 UK, IBD is less prevalent in South Asia and therefore less likely to have been encountered by family  
287 members and others in their social networks and communities.

288 *‘Of course they have no understanding about the Crohn’s, even abroad as well. All they*  
289 *know is about TB, or... they have infection, or ulcers. But Crohn’s is something*  
290 *unfamiliar abroad. What is Crohn’s? But this is not a name abroad. In the UK they have*  
291 *given it Crohn’s or colitis. But abroad is, this thing is totally unfamiliar, they have not*  
292 *given this name’. [ID 23, Male, age group 25-44 years].*

293

#### 294 *Self and family members’ attributions of IBD*

295 A sub-sample (all Muslim men) described beliefs – held by themselves and/or their families – which  
296 attributed the cause of IBD to past actions (e.g. sex outside marriage, drinking alcohol, eating ‘junk  
297 food’) thus generating a sense of self-blame. Beliefs about the cause of IBD being due to lifestyle  
298 were occasionally spoken of in combination with views on what it was to be a ‘good Muslim’. For  
299 example, one participant spoke of how perhaps if he had been a “better Muslim” and not been so  
300 “financially greedy”, leading him to work long hours, he would not have developed the condition.

301

302 *The stigma of ill-health*

303 Most participants spoke of being reluctant to reveal to others in their community that they had IBD.  
304 They believed that ill health is particularly stigmatised in South Asian communities especially, but  
305 not exclusively, within more traditional communities or among older members. They evidenced this  
306 by describing the way that, in their communities, having a health condition impacts on  
307 'marriageability', of both of men and women, something partly fuelled by concerns about the health  
308 of future offspring.

309 *'So I think, yeah, people tend not to talk about, you know not only IBD but like if they*  
310 *have any illness in general.... [in] the Asian community arranged marriage is still*  
311 *prevalent. So if you were, wanted to do that and you said you've got this [IBD] then ..*  
312 *people, [the] opposite party, is less likely .. going to want to marry you...I think they*  
313 *also look for ...they don't want it to seem like you've got bad genes or anything cos*  
314 *then you could pass it down to your children or whatever'.*

315 [ID 30, Male, age group 25-44 years]

316

317 *Taboo around bowel symptoms*

318 Whilst participants acknowledged that talking about IBD symptoms (particularly bowel-related)  
319 might be embarrassing for anyone, a number believed this subject was particularly taboo within  
320 South Asian communities.

321 *[in Pakistan] it was awful, like they just, it's just not something they speak about. Even when*  
322 *I went to see the doctor, I just did not feel comfortable telling him about my bowel*  
323 *movements, whereas when I go to the doctors here [UK] it's fine. But I really did not feel*

324 *comfortable at all discussing my bowel movements there, with him or actually, any other*  
325 *Asians really. Whereas over here it's, it's more acceptable I think to discuss'. [ID 34, Female,*  
326 *age group 18-24 years]*

327

328 It is important to note at this point that the different issues described above, all of which impacted  
329 on communication and support from family and wider social networks, were often identified as  
330 being interconnected and simultaneously affected participants' sense of isolation and a desire not to  
331 disclose their diagnosis.

332 *'I haven't told my brothers and sisters or anyone. I just feel like it's embarrassing for*  
333 *me and I just feel like, you know, to tell someone that you, you've got a disease .. just*  
334 *like the reaction I had at the beginning, "oh it's something that's catchy", "it's*  
335 *something that you may end up dying". I don't want no-one to feel like that, I don't*  
336 *want people to start treating me differently'. [ID 10, Female, age group 25-44 years]*

337

338 *"Spicy food" and food as a key element of social gatherings*

339 Most participants had found, or believed, food with spices exacerbated IBD symptoms and preferred  
340 to avoid it. This could mean eating, or preferring to eat, different food to other members of the  
341 household. This was manageable when they were responsible for family meals and cooking, but  
342 more difficult if they were not; for example, young people living with parents, women living with  
343 husband's family. A reluctance to eat, or avoidance of, food with spices also became an issue at  
344 social occasions, particularly when participants had chosen not to tell others they had IBD. Some  
345 dealt with this by avoiding such events or staying for a short period of time so as to avoid eating.  
346 Negotiating non-attendance when unwell was made more difficult in situations where the individual  
347 had chosen not to tell those outside the close family about their condition. Some study participants



348 reported that the difficulty of refusing food, or social pressure to eat, either in or outside the home,  
349 meant that they ate foods despite believing they would make them unwell.

350 *Or even at home if my mum's made something and I find it, if I tell her I, I find it quite spicy,*  
351 *she just thinks that, you know, it's just me being funny because everybody else is fine with it,*  
352 *and then, because of that sometimes you just carry on eating.'*

353 [ID 34, Female, age group 18-24 years]

354

### 355 *Beliefs about the links between food and health*

356 In addition to the complexities of avoiding food with spices, some participants spoke of difficulties  
357 getting others to accept the diet they had chosen to follow because of cultural and religious beliefs  
358 about food which may be held by family members and the wider community. Two types of beliefs  
359 were referred to. First, the belief that health problems are the result of an 'imbalance' in the foods a  
360 person eats, resulting in the perception that IBD could be cured through a change of diet. Second,  
361 within some faiths, beliefs that certain foods are blessed and therefore cannot be harmful, or  
362 exacerbate, symptoms.

363 *'I think the biggest problem will be some people will not be able to differentiate from their*  
364 *religion to medicine. They just can't seem to see why this food is breathtakingly bad for me.'*

365 (ID 18, Male, age group 25-44 years)

366

### 367 *Expectations regarding roles within the family*

368 Societal norms and expectations in many cultures means women with IBD, in particular, may be  
369 concerned about its impact on their ability to manage childcare and housework<sup>45</sup>, especially during a  
370 flare up. Evidence from this study indicates that this may be a particular issue, and more acutely

371 felt, by women of certain ethnicities. Thus, female study participants from more than one faith  
372 group, and including both women born in the UK and those who moved to the UK, described  
373 concerns about the *social consequences* of not being able to fulfil these roles, feeling that they may  
374 not be “forgiven” by others in their community or regarded as a failure.

375 *I mean if people, my family or anyone, find out that my husband’s helping with cooking and*  
376 *cleaning, not everyone’s going to be happy about it, everyone’s going to say, “Well, what’s*  
377 *the wife there for? The husband has to go to work, has to cook, has to clean, get the children*  
378 *from school and everything, what’s all that about, you know, what’s the wife doing?”. It’s*  
379 *really hard to explain to people that when you’re unwell, you’re unwell’. [ID 12, Female, age*  
380 *group 25-44 years]*

381

382 An additional issue related to this, and either experienced or anticipated by females across a range  
383 of ages and at different life stages (i.e. single, newly married and married for a number of years),  
384 were concerns about conceiving. It was clear from these participants’ accounts that an  
385 unwillingness to talk to others about having IBD exacerbated the strain and distress experienced:

386 *‘If I’m honest, there’s just that big burden in your head that, you know, I get the pressure in*  
387 *our culture just to say why aren’t I getting pregnant again, that’s, that’s one of the big*  
388 *pressures that I get..... but you can’t go around telling everybody I’ve got Crohn’s disease, I’m*  
389 *unwell, do you know, that’s why I’m not getting pregnant maybe as quick as a normal person*  
390 *will’. [ID 12, Female, age group 25-44 years]*

391

392 Male participants also described feeling under pressure to meet culturally prescribed obligations  
393 (e.g. providing for family) which the impacts of IBD sometimes rendered difficult or impossible to  
394 fulfil. This could lead to internal conflicts and a sense of failure.

395

396 *Living with extended family*

397 A number of participants lived with extended family and most described them as supportive.  
398 However, some women described being embarrassed about their IBD symptoms when they first  
399 moved into their husband's family home and, as previously mentioned, it could be difficult to adhere  
400 to their preferred diet. Participants also pointed out that living in larger households could reduce  
401 easy access to toilet facilities.

402

403 *The place of complementary and alternative medicines*

404 Many participants used complementary and alternative medicines (CAMs). Although many people  
405 with IBD choose to use CAMs,<sup>46</sup> it is important to note that some of the CAMs mentioned were  
406 traditional Indian medicines or remedies (e.g. Ayurvedic medicine, isabgol). A few spoke of seeking  
407 out, or planning to seek out, CAMs when they had visited family in South Asian countries. Some  
408 described being encouraged to seek them out by family members.

409

410 Most participants did not know the ingredients of homeopathic or herbal remedies which they used  
411 and typically believed that CAMs could not do any harm as they were 'natural' or herbal'. However,  
412 a few had suffered side effects and described being surprised to learn from their IBD specialist nurse  
413 that some herbal remedies should not be taken alongside IBD medications. Others choose not to use  
414 CAMs; reasons for this included acting on the advice of family members who were health  
415 professionals and witnessing ill-effects of CAMs on a family member seeking to manage another  
416 health condition.

417 *'I just feel like the doctors are in their places for a reason, the consultants are there in*  
418 *their places for a reason, we should just leave these things up to the professionals'.*

419 [ID 10, Female, age group 25-44 years]

420

421 *The place of faith healers*

422 A few participants had consulted a faith healer, not always someone from their own faith. In all  
423 cases, faith healers had been used in addition to, not instead of, NHS treatment. A couple of  
424 participants referred to pressure from one or more family members to seek help from a faith healer.  
425 In both instances, this had been resisted.

426

427 *Visits to family living overseas*

428 Most participants made trips overseas to visit relatives, often for extended periods of time. Many  
429 worried about travelling, particularly the likelihood of restricted access to toilets when flying or on  
430 car journeys. Furthermore, staying, or anticipating staying, overseas generated worries (which were  
431 sometime realised) about having to seek out medical care from health practitioners unfamiliar with  
432 IBD, managing a gastro-intestinal infection, safe storage of their medication, and disposing of stoma  
433 pouches. Some had experienced (sometimes very acute) flare ups, which they attributed to not  
434 adhering to medication, not realising how medication needed to be stored, or changes to diet. It is  
435 important to note, however, that despite these concerns, and to their surprise, some participants  
436 described finding their health improved during such trips. They speculated as to why this might be,  
437 most commonly attributing it to the warmer climate, good diet and being looked after by family.

438

439 **The benefits and challenges of practising faith**

440 Participants across all faiths spoke of how their faith helped them to cope with having IBD,  
441 particularly with pain. A number described the calming, almost meditative, effect of prayer, and the  
442 benefit of being active within their faith community since such roles and responsibilities provided a

443 reason to overcome difficulties caused by IBD. Among those who fasted, a few people commented  
 444 on experiencing reduced IBD symptoms after fasting.

445

446 Within our sample, it was the Muslim interviewees where faith was most likely to emerge as an  
 447 important feature of their lived experience of IBD. For example, they particularly referred to the  
 448 belief that having IBD was God or Allah's 'will', explaining that this helped them to re-construct IBD  
 449 not as a problem, but as a challenge sent by God, to which they needed to accept and respond.

450 *'It would be easy to say "Why me?", but being Muslim everything is seen as a test. The*  
 451 *question is "How are you going to deal with it?" .... The prophet was closer to God*  
 452 *when ill and so I may be too. This is my destiny. If I didn't have Crohn's I wouldn't be*  
 453 *as understanding of people as I am. Also, this life is temporary, which helps. What*  
 454 *doesn't kill me makes me stronger. Also prayer helps to calm me down. This hospital*  
 455 *Imam was also very helpful. He would try to give me a pep talk. Help me to see things*  
 456 *in a positive way. [ID 31, Female, age group 18-24 years]*

457

458 At the same time, a common theme among Muslim interviewees was how IBD affected their ability  
 459 to practice or fulfil religious rituals and requirements, and the impact this had on them. There were a  
 460 number of dimensions to this: physical demands of rituals, confinement to home, and social  
 461 embarrassment. First, daily prayers ( Salat<sup>1</sup> ), taking place five times a day could be challenging, if not  
 462 impossible, to fulfil when experiencing pain and fatigue. In addition, the requirement for ritual  
 463 washing prior to praying (Wudu<sup>2</sup>) could be additionally demanding during flare-ups because it may

---

<sup>1</sup> **Salat** is the practice of ritualistic prayer in Islam. It is usually performed five times a day and preceded by ritual ablution. It consists of the repetition of a unit called *arak'ah* (pl. *raka'at*) consisting of prescribed actions and words.

<sup>2</sup> **Wudu** - Before conducting salat, a Muslim has to perform a ritual ablution. Wudu is performed using water (*wudu*) and involves washing the hands, mouth, nose, arms, face, hair (often washing the hair is merely drawing the already wet hands from the fringe to the nape of the neck), ears, and feet three

464 need to be performed more than usual as it is nullified by natural discharges and therefore has to be  
465 repeated should that occur. Second, and as a result, leaving home could be difficult, or was avoided,  
466 due to difficulties finding bathrooms with the appropriate washing facilities.

467 *'When you [someone who is not South Asian] would have to go to the bathroom, you*  
468 *would just go to the bathroom. When I'm outside [the home] I have to go to the*  
469 *bathroom where there's like maybe water facilities or I'll take a bottle or something*  
470 *with me. We clean ourself in a different way, because of our religion, so that would be*  
471 *a big issue for me. When I first got Crohn's and I was suffering from diarrhoea it put a*  
472 *lot of fear on me. ... So yeah, it would probably prevent me going out for long periods of*  
473 *time'. [ID 3, Female, age group 25-44 years]*

474

475 Third, Muslim men in our sample described being worried about attending their Mosque for prayers  
476 due to the possibility they would pass wind. Despite these difficulties some said they endeavoured  
477 to pray as much as possible, even when unwell, since not doing so led to feelings of guilt. Others  
478 described praying more when they were well to 'make up' for missed prayer caused by an  
479 exacerbation of symptoms.

480

#### 481 **Experiences of using gastroenterology services**

482 With just a few exceptions, participants described their overall experiences of care and support from  
483 their gastroenterology services in positive terms. They appreciated the ease of access to the team  
484 outside of scheduled appointments, felt comfortable talking to staff about sensitive issues, and  
485 valued the information provided. Where shortcomings were identified, and in line with findings

---

times each in that order. It is not obligatory to wash the hair three times, once is sufficient, and men must also wash their beard and moustache when washing the face.

486 from research with other IBD populations,<sup>47-49</sup> there was disappointment that the focus of  
487 consultations was purely on medical management of the condition, with staff not having or taking  
488 the time to discuss how they were coping with the condition.

489 *'They ask the question of what symptoms am I getting with my Crohn's where I can just*  
490 *waffle on and just say "Oh I've got diarrhoea" etc., etc. But it's not, the question's not there*  
491 *as to saying like "what are you finding difficulty with, how are you living at home or have you*  
492 *got someone supporting you at home?"* [ID 10, Female, age group 25-44 years]

493

494 In a small number of cases, participants spoke of significant mental health difficulties (i.e.  
495 depression, panic attacks, and suicide attempts) which they ascribed to having IBD. None had  
496 discussed these issues with their gastroenterology team, feeling it was not part of their remit.  
497 Some participants spoke positively about culturally sensitive support from their clinical team.  
498 Examples included consultants taking time to help prepare people for trips overseas and being given  
499 advice about the increased risk to South Asian patients of vitamin D deficiency. Others, however,  
500 reported experiences which suggested deficiencies in culturally competent care. Thus, participants,  
501 typically women, referred to staff not appreciating the importance to (some) South Asian patients of  
502 being able to fulfil cultural expectations around what constitutes a 'good' wife or mother, and the  
503 need to find treatments and/or strategies which enabled them to take on these roles. As one  
504 woman explained:

505 *'I'm just now with the issue with the pregnancy and stuff, cos obviously I've been pushing it*  
506 *towards them saying, like it's important that I need to get pregnant and they don't*  
507 *understand. ... it's a big stress thing for me in the fact that I'm not getting pregnant and I*  
508 *want to get pregnant.'* [ID 10, Female, age group 25-44 years]

509

510 Others reported unmet needs in terms of dietary advice tailored to South Asian diet. Finally, among  
511 those using, or interested in using, CAMs, a number had chosen not to discuss this with the clinical

512 team feeling that they were not interested in, or 'negative' about, such treatments.

513

514 Whilst not directly relevant to the majority of our interviewees, a general awareness of a lack of

515 adequate translation services was sometimes raised in interviews. Two participants did require such

516 support and the potential stress caused by lack of access to an interpreter is apparent in the

517 following quote:

518 *'I can't speak English with the white doctors. Sometimes an interpreter is at the*  
519 *appointment but for the past 3 or 4 appointments no one was booked..... Sometimes*  
520 *the hospital tells me to wait for the interpreter. I have waited a couple of times but if I*  
521 *wait then where do I leave the kids?..... The hospital should be aware of these issues*  
522 *and make allowances in how they allocate appointments. Yes, I am ill and so I should*  
523 *wait, but I can't do this all the time'. [ID 13, Female, age group 25-44 years]*

524

525 Overall, it was the two individuals requiring translation services who appeared most dissatisfied with

526 their care and the difficulties they reported (i.e. inadequate explanations for their disease, lack of

527 dietary advice, poor communication of results) could, at least in part, be attributed poor access to

528 translation services.

529



## 530 Discussion

531 As is reported by studies of other IBD populations,<sup>26, 43, 44</sup> participants in this study – all South Asian  
532 patients with IBD - described the challenges of living with pain, the unpredictable (and sometimes  
533 uncontrollable) nature of IBD symptoms, and the effect these both had on their emotional well-  
534 being. Similarly, they also described the wide-ranging impacts IBD could have on their lives (i.e.  
535 work/study, caring responsibilities, social life and/or relationships with partners). In addition, this  
536 study has also identified ways that South Asian culture and religions may affect the lived experience  
537 of IBD. This carries implications for clinical care and practice. Before turning to these, we summarise  
538 and reflect on the study's findings, locating them where possible in the context of existing evidence.

539

540 First, participants believed that South Asian patients with IBD may be more likely to conceal their  
541 condition and experience a greater sense of isolation. This was attributed to poorer understandings  
542 of IBD within South Asian communities due to its relatively low incidence in South Asia. In addition,  
543 ill-health and bowel-related symptoms were regarded as carrying greater social stigma and had the  
544 potential to further contribute to feelings of isolation, failure and shame. A subsequent, smaller UK  
545 study of South Asian women<sup>50</sup> with IBD reports similar issues. Whilst not uniquely faced by South  
546 Asian patients,<sup>51</sup> study participants believed a lack of awareness and understanding, and issues of  
547 stigma, are more likely to be encountered, or exert a greater impact on, the lives of South Asian  
548 patients compared to other patient groups.

549

550 A second aspect of South Asian culture which participants believed impacted on their experiences of  
551 living with IBD was that they were part of a culture where eating food with spices is the norm. Yet,  
552 spices were believed to exacerbate IBD symptoms. As a result, and also reported elsewhere,<sup>27</sup> many  
553 preferred to avoid such foods, but managing this inside and outside of the home could be

554 challenging and a source of considerable anxiety. Our study adds further to our understanding of  
555 the difficulties South Asian patients may have in adhering to their preferred diet. Specifically,  
556 cultural or religious beliefs about food (e.g. foods being blessed or beneficial to health) may mean  
557 individuals feel under pressure to eat foods which, they believe, exacerbate symptoms.

558

559 Third, the impact of IBD on ability to fulfil gender-role expectations was a significant concern for  
560 some participants, most often woman. Such roles are universal and may affect anyone's lived  
561 experience of IBD.<sup>45</sup> However, interviewees believed that the potential social consequences of an  
562 inability to fulfil these roles were greater in South Asian communities. Such expectations resulted in  
563 participants experiencing an additional pressure to present themselves as managing when they were  
564 not.

565

566 A fourth issue concerns the use of CAMs. It is well-documented that many people with IBD use  
567 CAMs.<sup>46, 52, 53</sup> It was therefore not unexpected to hear about their use in this study. As with other  
568 IBD patient groups,<sup>53</sup> there was a reluctance to discuss CAMs with clinical teams due to perceiving  
569 them as disapproving of, or being uninterested in, alternatives to medical treatment. The additional  
570 complexity with respect to patients of South Asian origin is that some reported sourcing, or planning  
571 to source, CAMs when making visits to relatives in South Asian countries.

572

573 In addition, a small minority of our sample described experiences of being pressured by relatives to  
574 use a faith healer. The use of faith healers is not unique to patients of South Asian origin, and can be  
575 experienced as helpful.<sup>54, 55</sup> However, our finding that patients may not be voluntarily seeking it is  
576 concerning. It is not clear from the existing literature whether South Asian IBD patients are at  
577 increased risk of this compared to other patient groups.

578 A fifth aspect of South Asian ethnicity salient to the lived experience of IBD was religious faith. In line  
579 with wider evidence on living with chronic conditions,<sup>56</sup> for some their faith was highly relevant to  
580 their lived experience of IBD. It helped participants to make sense of their illness and motivated  
581 them to strive to manage and overcome difficulties. Rituals and other practices (prayer, fasting)  
582 were described as being beneficial but also as an additional challenge. At the same time, adhering to  
583 religious requirements of some South Asian religions (e.g. washing after bowel movements), the  
584 frequency (e.g. number of prayer times each day) and physical demands of rituals (e.g. kneeling,  
585 prostrating) could become very challenging during flare-ups and, if not adhered to, became a further  
586 source of distress. The latter emerged as particularly salient to Muslim men in our sample.

587

588 Finally, it is known that travel can be challenging for IBD patients,<sup>57, 58</sup> this is the first study to shed  
589 light on the implications for IBD patients of making extended visits to friends and relatives in their  
590 countries of origin. Many described anticipating and undergoing the travelling to be very stressful.  
591 Whilst there, some experienced, often unexpected, improvements in their health. However, others  
592 described experiences of deteriorations in health, difficulties adhering to treatment regimes, and an  
593 exacerbation of symptoms all of which were difficult to manage.

594

595 In summary, findings from our study suggest that, stemming from their culture, ethnicities and  
596 faiths, South Asian patients *may* experience IBD in ways different to other ethnic groups. The  
597 limited existing evidence on the lived experience of IBD across different ethnic groups means we  
598 cannot be sure if some of the issues we identified (e.g. diet, social expectations, mis-understandings  
599 of IBD) are *unique* to South Asian communities. However, we do know that existing research  
600 (predominantly with white Americans/Europeans) has not identified these issues, or has not found  
601 them to exert a significant impact on people's lives and/or their ability to manage their condition.

602

603 **Implications for patient care**

604 This study has identified aspects of South Asian's patients' lives which may affect treatment  
605 concordance, self-management strategies, emotional support needs, and information and support  
606 needs. However, it is crucial these findings are understood within the construct of culturally  
607 competent care. This stresses that, as with many socio-demographic characteristics, assumptions  
608 should not be made about the ways a patient's ethnicity may affect clinical management and patient  
609 care. Rather, clinicians should be mindful that ethnicity may affect managing and living with a health  
610 condition, and to look to evidence from individual patients as to what those impacts are. Based on  
611 the study findings and the wider evidence base, we suggest a number of responses.

- 612 • Gastroenterology services should seek to integrate cultural competence into professional  
613 development strategies, and note that existing evidence points to a multi-component  
614 approach including training and mentoring/supervision.<sup>59, 60</sup>  
615
- 616 • Clinical teams should be mindful that patients may be living in families or communities  
617 where IBD is unknown and the symptoms of the condition are particularly taboo, increasing  
618 the sense of isolation and rendering the psychosocial support received from the clinical team  
619 particularly important.  
620
- 621 • Clinicians should be aware that concerns common to the general IBD population (e.g. limited  
622 public awareness/understanding of IBD, fertility, ability to fulfil work or caring  
623 responsibilities) may carry additional significance and increase the stresses associated with  
624 living with IBD. Contacts with the clinical team should create opportunities for patients to  
625 explore these and other concerns.

626

- 627
- Information resources for family members, translated into relevant languages and co-  
628 created with patients, on the aetiology, symptoms, treatment options, self-management  
629 strategies (e.g. pacing/preserving energy, food avoidance) and impacts of IBD should be  
630 made available.
- 631
- Discussions with patients about diet/dietary advice should:
    - recognise that patients may be concerned about food with spices
    - recognise that cultural beliefs about food, and the key place of food at social  
635 gatherings, may make food avoidance difficult and cause anxiety.
    - be aware that patients may have limited influence on food served in the home
    - include the offer of a consultation/information resource for family members  
638 regarding food avoidance as a core IBD self-management strategy
- 639
- Clinics should identify strategies to consistently convey an openness to discussing CAMs with  
641 patients and seek a constructive approach in such discussions;
- 642
- Patients should routinely be made aware that it is advisable to consult with their clinical  
644 team when planning for extended visits abroad. Clinics should seek to advise on:  
645 identification of specialist services/clinicians in destination country or, if unavailable, agreed  
646 strategy to manage flare-up or loss/insufficient supply of medication; medication storage  
647 requirements; vaccinations and travel insurance. In addition, clinics should provide patients  
648 with a written summary of the patient's diagnosis and treatment plan should they need to  
649 seek medical attention.
- 650

651 • Clinical teams should consider engaging in proactive work to raise awareness and  
652 understanding within local South Asian communities, drawing on experiences from other  
653 health conditions regarding collaborative approaches with community leaders and groups.

654

655 • Patients should have access to high quality interpreting support during clinic appointments  
656 and when virtual contacts with the team are being sought.

657

### 658 **Study limitations**

659 Despite known barriers to recruiting UK South Asian patients to healthcare research <sup>61</sup> the study  
660 achieved its target sample. Indeed, this is the largest study of the lived experience of IBD among  
661 any patient group.<sup>26,44</sup> Nonetheless, overall response rate was low and it is possible that this  
662 resulted in selection bias, something we cannot fully establish as the study design did not include  
663 collecting information on non-responders. However, we note that, in line with the vast majority of  
664 qualitative studies investigating the experience of living with IBD,<sup>44</sup> more women than men were  
665 recruited to the study. In addition, we did not recruit anyone over 65 years of age and the majority  
666 of our sample were also fluent in or confidently used English. Whilst gastroenterology staff assisting  
667 with recruitment reported that this reflected the language skills of their wider IBD clinic populations,  
668 it does remain a limitation of this study.

669

### 670 **Conclusions**

671 South Asian culture and religions have the potential to influence the impact that IBD has on patients'  
672 everyday lives and how they manage their condition. To some extent, the degree of influence  
673 depends on whether the patient lives by South Asian cultural norms and values and within a South  
674 Asian community. While some influences, such as the use of faith and religious practice to cope with  
675 IBD, had a positive impact, others were negative, creating concerns and pressures which may not be

676 experienced by other ethnic groups. Findings carry a number of implications for patient care and  
677 also point to the need for gastroenterology services to reach out into South Asian communities with  
678 awareness raising and educational interventions.

679

## 680 **Funding**

681 This work was supported by a 'Living with IBD' research grant from Crohn's and Colitis UK (NACC  
682 Grant reference: SP 2012-1).

683

## 684 **Conflict of Interest**

685 The corresponding author confirms on behalf of all the authors that there are no conflicts of interest  
686 which might bias the research reported or the opinions stated in this paper in any way.

687

688 **Author Contributions** SM led the data collection and analysis reported, and led writing and  
689 revising the manuscript. BB provided supervision to SM and contributed to writing and revisions.

690 All authors were involved in: conception and design of study; made critical revisions to the article;  
691 and provided final approval prior to submission.

692

## 693 **Acknowledgements**

694 We are extremely grateful to study participants. We also acknowledge the project interviewers:  
695 Zahira Latif, Melanie Lovatt, Hina Patel, Penny Rivlin, Lucy Stuttard, and Jim Wade.

696

697 **References**

- 698 1. M'Koma AE. Inflammatory bowel disease: an expanding global health problem. *Clin Med*  
699 *Insights Gastroenterol* 2013;**6**:33-47. <https://doi.org/10.4137/CGast.S12731>
- 700 2. Molodecky NA, Soon IS, Rabi DM, Ghali WA, Ferris M, Chernoff G, *et al.* Increasing incidence  
701 and prevalence of the inflammatory bowel diseases with time, based on systematic review.  
702 *Gastroenterology* 2012;**142**:46-54.e42; quiz e30. <https://doi.org/10.1053/j.gastro.2011.10.001>
- 703 3. Banerjee R, Pal P, Hilmi I, Desai D, Dutta U, Mohiuddin SA, *et al.* Emerging IBD Demographics  
704 in South Asia and Middle East : A Pilot Study from the IBD Emerging Nations' Consortium (IBDENC).  
705 *Gastroenterology* 2019;**156**:S-406. [https://doi.org/10.1016/S0016-5085\(19\)37868-0](https://doi.org/10.1016/S0016-5085(19)37868-0)
- 706 4. Misra R, Faiz O, Munkholm P, Burisch J, Arebi N. Epidemiology of inflammatory bowel  
707 disease in racial and ethnic migrant groups. *World journal of gastroenterology* 2018;**24**:424-37.  
708 <https://doi.org/10.3748/wjg.v24.i3.424>
- 709 5. Misra R, Limdi J, Cooney R, Sakuma S, Brookes M, Fogden E, *et al.* Ethnic differences in  
710 inflammatory bowel disease: Results from the United Kingdom inception cohort epidemiology study.  
711 *World journal of gastroenterology* 2019;**25**:6145-57. <https://doi.org/10.3748/wjg.v25.i40.6145>
- 712 6. Sewell JL, Velayos FS. Systematic review: The role of race and socioeconomic factors on IBD  
713 healthcare delivery and effectiveness. *Inflamm Bowel Dis* 2013;**19**:627-43.  
714 <https://doi.org/10.1002/ibd.22986>
- 715 7. Karlsen S, Marilyn R, Becares L. Understanding the influence of ethnicity on health In:  
716 Chattoo S, Atkin K, editors. *Understanding Race and Ethnicity* 2019:158-78.
- 717 8. Dyson SB, Maria. Ethnicity, disability and chronic illness. In: Chattoo SA, Karl; Craig, Gary;  
718 Flynn, Ronny, editor. *Understanding 'Race' and Ethnicity : Theory, History, Policy and Practice*. 2nd  
719 edn. University of Bristol, UK: Policy Press; 2019:181-200.
- 720 9. *Ethnicity and Health* London Parliamentary Office of Science and Technology; 2007.
- 721 10. Ng SC, Shi HY, Hamidi N, Underwood FE, Tang W, Benchimol EI, *et al.* Worldwide incidence  
722 and prevalence of inflammatory bowel disease in the 21st century: a systematic review of



- 723 population-based studies. *The Lancet* 2017;**390**:2769-78. <https://doi.org/10.1016/S0140->  
724 6736(17)32448-0
- 725 11. Agrawal M, Burisch J, Colombel J-F, C. Shah S. Viewpoint: Inflammatory Bowel Diseases  
726 Among Immigrants From Low- to High-Incidence Countries: Opportunities and Considerations.  
727 *Journal of Crohn's and Colitis* 2019; <https://doi.org/10.1093/ecco-jcc/jjz139>
- 728 12. Szczepura A. Access to health care for ethnic minority populations. *Postgraduate Medical*  
729 *Journal* 2005;**81**:141-7. <https://doi.org/10.1136/pgmj.2004.026237>
- 730 13. Alizadeh S, Chavan M. Cultural competence dimensions and outcomes: a systematic review  
731 of the literature. *Health & Social Care in the Community* 2016;**24**:e117-e30.  
732 <https://doi.org/10.1111/hsc.12293>
- 733 14. Betancourt JR. Cultural Competence and Medical Education: Many Names, Many  
734 Perspectives, One Goal. *Academic Medicine* 2006;**81**:499-501.  
735 <https://doi.org/10.1097/01.ACM.0000225211.77088.cb>
- 736 15. Saha S, Beach MC, Cooper LA. Patient Centeredness, Cultural Competence and Healthcare  
737 Quality. *Journal of the National Medical Association* 2008;**100**:1275-85.
- 738 16. Atkin K, Chattoo S, Crawshaw M. Clinical encounters and culturally competent practice: the  
739 challenges of providing cancer and infertility care. *Policy & Politics* 2014;**42**:581-96.  
740 <https://doi.org/10.1332/030557312X655675>
- 741 17. Kemp K, Dibley L, Chauhan U, Greveson K, Jäghult S, Ashton K, *et al.* Second N-ECCO  
742 Consensus Statements on the European Nursing Roles in Caring for Patients with Crohn's Disease or  
743 Ulcerative Colitis. *Journal of Crohn's and Colitis* 2018;**12**:760-76. <https://doi.org/10.1093/ecco->  
744 [jcc/jjy020](https://doi.org/10.1093/ecco-jcc/jjy020)
- 745 18. Mowat C, Cole A, Windsor A, Ahmad T, Arnott I, Driscoll R, *et al.* Guidelines for the  
746 management of inflammatory bowel disease in adults. *Gut* 2011;**60**:571-607.  
747 <https://doi.org/10.1136/gut.2010.224154>

- 748 19. Carethers JM, Quezada SM, Carr RM, Day LW. Diversity Within US Gastroenterology  
749 Physician Practices: The Pipeline, Cultural Competencies, and Gastroenterology Societies  
750 Approaches. *Gastroenterology* 2019;**156**:829-33. <https://doi.org/10.1053/j.gastro.2018.10.056>
- 751 20. Black P. A guide to providing culturally appropriate care. *Gastrointestinal Nursing* 2008;**6**:10-  
752 7. <https://doi.org/10.12968/gasn.2008.6.6.30484>
- 753 21. Black P. Cultural and religious beliefs in stoma care nursing. *British Journal of Nursing*  
754 2009;**18**:790-3. <https://doi.org/10.12968/bjon.2009.18.13.43206>
- 755 22. Hall L. A guide to stoma care for Hindu patients. *Gastrointestinal Nursing* 2017;**15**:16-8.  
756 <https://doi.org/10.12968/gasn.2017.15.7.16>
- 757 23. Sica J, Timms K. A guide to stoma care for Jewish patients. *Gastrointestinal Nursing*  
758 2017;**15**:26-9. <https://doi.org/10.12968/gasn.2017.15.1.26>
- 759 24. Ashworth S, Hall L. Supporting Muslim ostomates through Ramadan. *Gastrointestinal*  
760 *Nursing* 2017;**15**:25-8. <https://doi.org/10.12968/gasn.2017.15.3.25>
- 761 25. Hall L. A guide to stoma care for Sikh patients. *Gastrointestinal Nursing* 2018;**16**:24-5.  
762 <https://doi.org/10.12968/gasn.2018.16.7.24>
- 763 26. Kemp K, Griffiths J, Lovell K. Understanding the health and social care needs of people living  
764 with IBD: a meta-synthesis of the evidence. *World journal of gastroenterology : WJG* 2012;**18**:6240-  
765 9. <https://doi.org/10.3748/wjg.v18.i43.6240>
- 766 27. Alexakis C, Nash A, Lloyd M, Brooks F, Lindsay JO, Poullis A. Inflammatory bowel disease in  
767 young patients: challenges faced by black and minority ethnic communities in the UK. *Health Soc*  
768 *Care Community* 2015; <https://doi.org/10.1111/hsc.12188>
- 769 28. Moody G, Eaden, JA., Bhakta, P., Sher, K., Mayberry, JF. The role of complementary medicine  
770 in European and Asian patients with inflammatory bowel disease. *Public Health* 1998:269-71.
- 771 29. Probert CS, Bhakta P, Bhamra B, Jayanthi V, Mayberry JF. Diet of South Asians with  
772 inflammatory bowel disease. *Arquivos de gastroenterologia* 1996;**33**:132-5.

- 773 30. Probert CS, Jayanthi V, Pollock DJ, Baithun SI, Mayberry JF, Rampton DS. Crohn's disease in  
774 Bangladeshis and Europeans in Britain: an epidemiological comparison in Tower Hamlets.  
775 *Postgraduate Medical Journal* 1992;**68**:914-20. <https://doi.org/10.1136/pgmj.68.805.914>
- 776 31. Tong A, Sainsbury P, Craig J. Consolidated criteria for reporting qualitative research (COREQ):  
777 a 32-item checklist for interviews and focus groups. *International Journal for Quality in Health Care*  
778 2007;**19**:349-57. <https://doi.org/10.1093/intqhc/mzm042>
- 779 32. Smith JA, Osborn, M. Interpretative Phenomenological Analysis. In: Smith JA, editor.  
780 *Qualitative psychology: a practical guide to research methods* London: Thousand Oaks, CA, US: Sage  
781 Publications, Inc. ; 2003:53-80.
- 782 33. Peat G, Rodriguez A, Smith J. Interpretive phenomenological analysis applied to healthcare  
783 research. *Evidence Based Nursing* 2019;**22**:7. <https://doi.org/10.1136/ebnurs-2018-103017>
- 784 34. Emmel N. *Sampling and choosing cases in qualitative research: a realist approach*: Sage  
785 Publications Ltd> 2013.
- 786 35. Barbour S. Checklists for improving rigour in qualitative research: a case of the tail wagging  
787 the dog? *BMJ* 2001; <https://doi.org/10.1136/bmj.322.7294.1115>
- 788 36. Kelly M. *Colitis* London, New York: Routledge; 1992.
- 789 37. Mukherjee S, Beresford B. N18 Facilitating involvement of patients from ethnic minority  
790 groups in research: experiences of offering patients a choice of interviewer. *Journal of Crohn's and*  
791 *Colitis* 2020;**14**:S666-S. <https://doi.org/10.1093/ecco-jcc/jjz203.1001>
- 792 38. Atkin KC, S. Approaches to conducting qualitative research in ethnically diverse  
793 populatiokns. In: Nazroo J, editor. *Methodological Issues in Research Relating to Black and Minority*  
794 *Ethnic Groups: Publishing the evidence* London: Taylor Francis; 2006.
- 795 39. Miles MH, A; Saldanam J. *Qualitative Data Anakysis: a methods sourcebook*: Sage; 2018.
- 796 40. Lewis-Beck MS, Bryman, A., & Futing Liao, T. Thousand Oaks, California; 2004.  
797 <https://doi.org/10.4135/9781412950589>.
- 798 41. Ritchie LJ. *Qualitative Research Practice*. London: Sage; 2003.

- 799 42. *Comparison of mid-2010 population estimates by ethnic group against the 2011 census.*  
800 London: Office for National Statistics; 2013.
- 801 43. Fourie S, Jackson D, Aveyard H. Living with Inflammatory Bowel Disease: A review of  
802 qualitative research studies. *International Journal of Nursing Studies* 2018;**87**:149-56.  
803 <https://doi.org/10.1016/j.ijnurstu.2018.07.017>
- 804 44. Byron C, Cornally N, Burton A, Savage E. Challenges of living with and managing  
805 inflammatory bowel disease: A meta-synthesis of patients' experiences. *Journal of Clinical Nursing*  
806 2020;**29**:305-19. <https://doi.org/10.1111/jocn.15080>
- 807 45. Mukherjee S, Sloper P, Turnbull A. An insight into the experiences of parents with  
808 inflammatory bowel disease. *Journal of Advanced Nursing* 2002;**37**:355-63.  
809 <https://doi.org/10.1046/j.1365-2648.2002.02098.x>
- 810 46. Lin SC, Cheifetz AS. The Use of Complementary and Alternative Medicine in Patients With  
811 Inflammatory Bowel Disease. *Gastroenterology & hepatology* 2018;**14**:415-25.
- 812 47. Kapasi R, Glatter J, Lamb CA, Acheson AG, Andrews C, Arnott ID, *et al.* Consensus standards  
813 of healthcare for adults and children with inflammatory bowel disease in the UK. *Frontline*  
814 *Gastroenterology* 2019; <https://doi.org/10.1136/flgastro-2019-101260>
- 815 48. Heisler C, Kits O, Veldhuyzen van Zanten S, Jones J. P241 Focussing on the future: reducing  
816 barriers and improving access to IBD specialty care. *Journal of Crohn's and Colitis* 2019;**13**:S217-S8.  
817 <https://doi.org/10.1093/ecco-jcc/jyy222.365>
- 818 49. Schoultz M, Macaden L, Watson AJM. Co-designing inflammatory bowel disease (Ibd)  
819 services in Scotland: findings from a nationwide survey. *BMC health services research* 2016;**16**:231.  
820 <https://doi.org/10.1186/s12913-016-1490-7>
- 821 50. Ford A, Paniagua H, al BMe. PTH- 127 The lived experiences of British South Asian women  
822 with Inflammatory Bowel Disease: a qualitative study *Gut*;**68**:A98.

- 823 51. Taft TH, Keefer L. A systematic review of disease-related stigmatization in patients living with  
824 inflammatory bowel disease. *Clinical and experimental gastroenterology* 2016;**9**:49-58.  
825 <https://doi.org/10.2147/CEG.S83533>
- 826 52. Hilsden RJ, Verhoef MJ, Rasmussen H, Porcino A, DeBruyn JC. Use of complementary and  
827 alternative medicine by patients with inflammatory bowel disease. *Inflamm Bowel Dis* 2011;**17**:655-  
828 62. <https://doi.org/10.1002/ibd.21360>
- 829 53. Zazos P, Nguyen GC. Use of Complementary and Alternative Medicine in Inflammatory  
830 Bowel Disease Around the World. *Gastroenterol Clin North Am* 2017;**46**:679-88.  
831 <https://doi.org/10.1016/j.gtc.2017.08.001>
- 832 54. Levin J, Prevalence and Religious Predictors of Healing Prayer Use in the USA: Findings from  
833 the Baylor Religion Survey. *J Relig Health* 2016;**55**:1136-58. <https://doi.org/10.1007/s10943-016->  
834 0240-9
- 835 55. Stockigt BMH, Besch F, Jeserich F, Holmberg C, Witt CM, Teut M. Healing Relationships: A  
836 Qualitative Study of Healers and Their Clients in Germany. *Evidence-Based Complementary and*  
837 *Alternative Medicine* 2015;**2015**:8. <https://doi.org/10.1155/2015/145154>
- 838 56. Jors K, Bussing A, Hvidt NC, Baumann K. Personal prayer in patients dealing with chronic  
839 illness: a review of the research literature. *Evid Based Complement Alternat Med* 2015;  
840 <https://doi.org/10.1155/2015/927973>
- 841 57. Greveson K, Shepherd T, Mulligan JP, Hamilton M, Woodward S, Norton C, *et al.* Travel  
842 health and pretravel preparation in the patient with inflammatory bowel disease. *Frontline*  
843 *Gastroenterology* 2016;**7**:60. <https://doi.org/10.1136/flgastro-2014-100548>
- 844 58. Philip V, Soubieres A, Poullis A. Health concerns associated with travelling with inflammatory  
845 bowel disease (IBD): a questionnaire survey. *Clin Med (Lond)* 2018;**18**:288-92.  
846 <https://doi.org/10.7861/clinmedicine.18-4-288>

- 847 59. McCabe CF, O'Brien-Combs A, Anderson OS. Cultural Competency Training and  
 848 Evaluation Methods Across Dietetics Education: A Narrative Review. *Journal of the Academy of*  
 849 *Nutrition and Dietetics* 2020; <https://doi.org/https://doi.org/10.1016/j.jand.2020.01.014>
- 850 60. Jongen C, McCalman J, Bainbridge R. Health workforce cultural competency interventions: a  
 851 systematic scoping review. *BMC health services research* 2018;**18**:232.  
 852 <https://doi.org/10.1186/s12913-018-3001-5>
- 853 61. Quay TAW, Frimer L, Janssen PA, Lamers Y. Barriers and facilitators to recruitment of South  
 854 Asians to health research: a scoping review. *BMJ Open* 2017;**7**:e014889.  
 855 <https://doi.org/10.1136/bmjopen-2016-014889>

856

**Table 1:** Country of birth of study sample

Country of birth	Number
UK	19
India	4
Pakistan	4
Kenya	2
Uganda	2
Bangladesh	2

857

858

859

860

861

**Table 2:** Ethnic group of study sample

Ethnic group	Number
Indian/British Indian	19
Pakistani/British Pakistani	9
Bangladeshi/British Bangladeshi	4
British Punjabi	1

862

**Table3:** Gender, age and religious affiliation of sample

	Age	Muslim	Hindu	Sikh	Other	Sub-total
Male	18-24 yrs	2	0	0	0	2
	25-44 yrs	3	1	2	0	6
	45-65 yrs	2	1	2	0	5
Sub-total		7	2	4	0	13
Female	18-24 yrs	2	3	0	0	5
	25-44 yrs	5	3	2	0	10
	45-65 yrs	2	1	1	1	6
Sub-total		9	7	3	1	20
Grand total		16	9	7	1	33

863

864

865

866 **Supplementary Figure 1: Thematic framework for analysis****Theme 1 – Living with IBD****Codes:**

- Getting diagnosed
- Symptoms
- Strategies for dealing with symptoms & any barriers to using them
- Impact on life (positive or negative)
- Emotional well-being
- Outlook on life
- Articulated support needs

**Theme 2 – Access to support****Codes:**

- Support in household:
- Support from outside household
- Support from health services

**Theme 3 – Perceptions and beliefs about cause of IBD****Codes**

- Cause – unclear to participant
- Cause - anxiety/stress
- Cause - lifestyle
- Cause - diet
- Cause - punishment
- Cause - God/Allah's will

**Theme 4 - Visits to South Asian countries****Codes**

- Purpose of visit
- Impact of visit on health
- Adjustments made to medical treatment when abroad
- Seeking further/alternative treatment when abroad
- Barriers to getting support/treatment when abroad
- Articulated support needs

**Theme 5 - Feedback & recommendations to Crohn's and Colitis UK****Codes**

- Awareness of organisation
- Helpful support
- Unhelpful support
- Ways in which support could be developed – generic
- Ways in which support could be developed – for South Asian patients

867

868

869

870

871

872



873 **Supplementary Figure 2: Detailed account of the data analysis**

To start, the lead researcher (A1) read all transcripts and field notes, with other members of the team (A2, A3) each reading a sub-set. Next, 1-2 page summary, or a 'pen portrait' (Holloway and Jefferson, 2000), of each interview was prepared. These activities supported and informed the identification of themes and the development of an initial thematic framework (led by A1). This was critically discussed and further developed through a day workshop with the Project Interviewers and at a PAG meeting. A1 then used the revised version to code a sub-sample of interviews. This work was reviewed by A2, resulting in some final fine-grained refinements (Supplementary Figure 1 provides the final version). Data was then coded and extracted by A1 onto a series of Excel (2010) charts (one per theme, with columns used to organise into sub-themes). On each chart, each participant's data was contained in a single row. Extracted data comprised summaries of coded text and, where appropriate, short sections of verbatim text (or quotes). All chart entries were indexed back to the transcript by page number. Led by A1, but involving the whole research team, charts were explored and interrogated, with iterations of analytical notes being used to describe emerging findings, set out and test the evidence for initial conclusions. Throughout the data was carefully explored for the impact of gender, faith, country of birth and age on lived experience. All members of the research team were involved in contributing to and commenting on drafts of the report findings.

874

875

876