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FAMILY SUPPORT AND CARDIAC REHABILITATION: A COMPARATIVE STUDY
OF THE EXPERIENCES OF SOUTH ASIAN AND WHITE PATIENTS AND THEIR
CARER’S

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1. Introduction

When an individual is discharged home from hospital after a cardiac event, such as myocardial infarction (MI), their recovery is characterised by a period of adjustment. Interactions between patients and their family influence the course of recovery and those individuals who live alone or who have poorly developed social networks are particularly vulnerable. Accordingly, social isolation, or a lack of social support, is recognised as a risk factor for both the development of coronary heart disease (CHD) and as a negative prognostic factor for those with established CHD\(^1\). Several reviews have reported a negative correlation between the level of social support and CHD mortality and morbidity even after controlling for conventional risk factors\(^2,3\).

Family support is a significant mediating factor during recovery and readjustment after a cardiac event\(^4,5\), whether it be ‘instrumental’ (assistance with activities of daily living, such as food preparation, shopping and cleaning) or emotional (caring, understanding and empathy)\(^6\). The willingness of family members to support patients in making healthy lifestyle changes will be influenced by a range of factors such as their own beliefs and attitudes towards CHD, their motivation to adopt a healthier lifestyle themselves as well as contextual factors, which include their relationship to the patient, support available to themselves and their relationship to service delivery (for a more general discussion\(^7\)). Levels of social support, however, vary. More generally, cultural and gendered expectations about care-giving mean there are differing levels of involvement from spouses, children and extended family members during the recovery process. Studies
show that this period is particularly challenging for family members as they may experience a range of negative emotions such as anxiety, depression, uncertainty, fatigue, irritability, poor concentration and insomnia\textsuperscript{8,9,10,11}.

There is, however, little published research about family support and cardiac rehabilitation experiences of South Asians. South Asians have poorer outcomes after myocardial infarction (MI)\textsuperscript{12} than the general UK population, although the reasons for this are unclear\textsuperscript{13}. Communication and language barriers, however, emerge as a significant problem in the provision of quality care for South Asians\textsuperscript{14,15}. Webster, Thompson & Mayou (2002) explored the experiences and needs of Gujarati Hindu patients one-month after MI and reported that patients and partners received limited information about their condition due to language barriers\textsuperscript{16}. This led to patients and carers displaying misconceptions about their condition which negatively influenced recovery. In particular, patients typically made few lifestyle changes and perceived their MI as an event that signified the end of their active life. Other studies have identified similar communication and language difficulties experienced by South Asian patients, being treated for a range of chronic diseases, leading to a lack of information for patients and their families about diagnosis, medication and advice about their care\textsuperscript{17,18,19,20,21,22}. These difficulties often arise due to problems in accessing interpreters, resulting in family members being heavily relied on to function as interpreters\textsuperscript{20}.

A lack of health information is likely to influence individuals in their efforts to effectively self-manage their chronic condition. Language, however, is not the only problem facing South Asian populations and the literature suggests that there is a complex interplay between socioeconomic factors, gender, culture, access to cardiac rehabilitation and social support; all of which are likely to influence recovery\textsuperscript{23}. Little work, however,
explores this interplay. The aim of this exploratory, qualitative study was to examine participants’ experiences of cardiac rehabilitation and the nature of family support across a sample of South Asian and white cardiac patients and their carers.

2. **Methods**

2.1 **Setting**

The study took place in West Yorkshire and recruited participants from one of three participating district general hospitals. The target area’s population of people of South Asian origin is approximately ten per cent.

2.2 **Sample**

The sample consisted of ‘white’ and ‘South Asian’ patients, aged over 30 years old, who consented to participate. Eligible patient participants had been admitted to hospital within the preceding year with a diagnosis of unstable angina, MI or for Coronary Artery Bypass Graft surgery (CABG). Consenting patient participants were asked to identify a family carer they felt had influenced their views and behaviour, either positively or negatively. All carers willing to participate were included.

2.3 **Data Collection**

Semi-structured interviews were conducted using thematic topic guides, to explore key issues. Published literature and views expressed by professional and patient advisory groups influenced their development. The topic guides explored people’s understanding of CHD; the impact of CHD on their lives; the influence of social networks on how they make sense of CHD; their relationship with service delivery; and their specific experience of rehabilitation. We used a similar topic guide for interviews with patients
and carers, to allow for comparison. The majority of interviews were conducted by a female researcher (fluent in Urdu, Hindi and Punjabi) or a male researcher (fluent in Urdu and Hindi). Two other researchers conducted three interviews that required fluency in Sylheti and Gujerati. Prior to data collection, a series of meetings between interviewers were conducted to address issues around the translation of questions into South Asian languages. Efforts were made to ensure that words and phrases in the original topic guide, retained the same meaning when translated.

Participants were given the choice of where their interview was conducted and the majority chose their homes. Interviews lasted between 60 and 90 minutes. Given the potentially sensitive nature of some of the questions, participants were offered the option of a same sex interviewer. The majority of patients and carers took this option although this arrangement was not always possible (such as when patient and carers wanted to be interviewed together, which occurred in 29 cases).

2.4 Procedure

After gaining local ethics committee approval, potential participants were identified by cardiac rehabilitation nurses from participating centres. General Practitioners were then contacted and asked about their patients’ fitness to participate. Great care was taken to ensure that interviews remained confidential. When patients and carers were interviewed separately, each participant was assured that material would be confidential. Participants were also assured that the information they provided would not be discussed with their health care professionals. All interviews were fully transcribed and when necessary, translated. During translation, our concern was to capture conceptual equivalence - which preserved the use of local metaphor and the meaning intended by the person - rather than present a literal translation.
2.5 Data Analysis

Members of the research team read and reread transcripts and recurrent themes and concepts were identified. This guided the development and refinement of a coding frame based upon the emergent themes and sub-themes, which was then applied to each transcript. Relevant text was indexed in the transcript whenever a particular theme appeared and organised into a grid. Using this method of Framework analysis, we were able to explore concepts; establish linkages between concepts; and offer explanations for patterns or ranges of responses or observations from different sources. This involved constant cross-referencing between part and whole, as we generated an understanding of the meaning of actions, beliefs, attitudes and relationships, from the range and frequency of participants’ views. This approach contributed toward establishing trustworthiness in our ‘qualitative’ inquiry as outlined by Guba & Lincoln (1989). Researchers were able to focus upon the experiences and views of individual cases and relate these to themes. This approach facilitated the comparison of both cases and groupings and the identification of commonalities and differences in experiences across ethnic groups including within the South Asian group.

3. Results

Of the 112 potential participants identified, 89 were identified as sufficiently fit by their General Practitioner to participate. Of these, 22 potential participants declined and 2 did not respond, leaving 65 participants in the final sample. Approximately one third of these participants had attended cardiac rehabilitation classes within the previous year, with no major differences in uptake between ethnic groups.

The patient sample consisted of (20) white and (45) South Asian patients aged over 30 years who consented to participate in the study. Eligible participants had been admitted
to one of three district general hospitals in West Yorkshire during the preceding year with a diagnosis of unstable angina (32%), MI (42%), or for CABG surgery (26%). In selecting our South Asian sample, we recognised the heterogeneity of this group. A person’s ethnic identity, as defined by their country of origin, is an important starting point, although for many South Asian people living in the UK, religion and ethnicity often reinforce each other\textsuperscript{29}. This emphasises the value of selecting our South Asian sample, on the basis of both ethnic and religious identification\textsuperscript{24}. On a more practical note, where we detected no differences among our South Asian sample, we use South Asian as a generic term. This, however, is not meant to undermine the heterogeneity of such populations and where differences within the South Asian sample occur, our analysis reflects this. A summary of participant’s demographic characteristics is shown in Table 1. (Insert Table 1 here please).

The carer’s sample consisted of 54 participants that patients had nominated as having influenced their views and behaviour, either positively or negatively. The relationship of carers to patients is shown in Table 2. (Insert Table 2 here please).

There were varying levels of fluency in English amongst the South Asian sample of patients and carers. The majority of Pakistani-Muslim patients preferred to be interviewed in Urdu or Punjabi; only one of the females in this group was an English speaker. In contrast, carers of these patients were more likely to be fluent in English (63%). Just over half the Indian Sikh patients, including all the females, could not speak English. However, a greater proportion of Indian Sikh carers were English speakers (62%). There were more English speakers within the Indian-Hindu sample (8), however only one of this group was female.
In presenting our findings we explore the generic experience of CHD and explore the influence of ethnicity and culture, when appropriate\textsuperscript{24}. As well as drawing out similarities and differences between white and South Asian populations, we also draw out similarities and differences within our South Asian sample. This explains our terminology. Sometimes we are presenting a generic experience, typical of our South Asian sample. In other cases, we might want to reflect on differences. Pseudonyms are used to preserve anonymity.

### 3.1 Household composition

Within the sample, there was considerable variation in household composition both across and within ethnic groups. White patients generally lived in smaller households than South Asian patients. Half of the white participants lived with their spouse and had grown up children living in separate households. A quarter lived alone, either widowed or divorced. Roughly half the patients within each South Asian group were sharing their household with their spouse and children. However, Indian-Hindu patients were much more likely than their Indian-Sikh and Pakistani-Muslim counterparts to live in smaller households. Half of the Indian-Hindu households consisted of married couples, compared to only one Pakistani-Muslim and one Indian-Sikh household. A smaller number of patients within each ethnic minority group lived in extended families, usually consisting of a spouse, son, daughter-in-law and grandchildren. In contrast to the white sample, very few South Asian patients lived alone.

### 3.2 Provision of advice and information

Within white families, spouses typically accompanied their partners to hospital appointments. Accordingly, couples were able to discuss the advice they had received concerning rehabilitation and could interact jointly with health professionals to identify
potential problems. In this way spouses were able to provide considerable emotional support for their partners both during the initial stages of their diagnosis and as a ‘sounding board’ for patients to discuss health concerns that arose following interactions with health professionals. This degree of interaction was not always available for South Asian patients as many of the patients and their spouses could not speak English, particularly within the Pakistani-Muslim group. This meant that there was often very little communication between health care professionals and spouses. Non-English speaking wives were not always able to understand the information given by health professionals to their husbands and were often dependent upon their spouses or their children to advise them as to what changes needed to be made within the home. In such cases children were expected to act as interpreters and pass on relevant information to their parents. English speaking children were therefore an important source of information for patients within these families. They were also an important channel through which patients could direct questions of health care professionals about their condition. This, however, generated some inherent difficulties as children and patients were not always satisfied with this arrangement, feeling it breached expectations of family life. In isolated cases families withheld information from patients in a bid to prevent them from becoming alarmed and distressed about their CHD. In isolated cases, children opted not to tell their parents their diagnosis. More generally children tended to avoid conveying the negative aspects and seriousness of their condition.

On returning home families – irrespective of ethnicity - instituted a variety of care arrangement. Female patients who lived alone reported that they needed support during early recovery and tended to stay with children or siblings. Elsie, a 72 year old
widow, who had suffered her first MI explained why she couldn’t face going back to her
own home in the first few weeks:

*Well you are frightened at first. You think I have had a heart attack. If there
is somebody with you it helps. If I was on my own 24 hours a day, it would drive
me around the bend.*

Other patients – again irrespective of ethnicity - found that spouses or children took time
off work to care for them. Some patients recalled that their families had been concerned
about their need to provide them with physical support in the early stages of recovery,
while they themselves were eager to regain their independence as soon as possible.
This caused occasional tensions. Balvinder, who had been admitted to hospital for
unstable angina was keen to resume her normal activities soon after she was
discharged from hospital. This caused her family considerable anxiety as highlighted by
Balvinder’s daughter-in-law as she recalls her own and her husband’s attitude towards
the situation:

*At the beginning we thought that she can’t go on the bus, she can’t walk up here,
she can’t go here and my husband would take her … in the car he used to take
her here and there, even if she had to get the shopping we had to take her
because we used to think we had to be with her, she can’t go by herself … She
was like [thinking] … I’m getting locked up inside and are they always going to
treat me like that?*

Frequently, family members thought it important to minimise stress experienced by their
relative and took practical steps to achieve this goal. Children rather than spouses were
more likely to think about the impact of stress within South Asian families. In contrast,
within white families, spouses were equally as likely as their children to discuss stress reduction. Within both South Asian and white families, the most common approach to reduce stress within the household was for children to avoid disclosing information which they thought might be potentially upsetting to their parents (also see above).

Some younger patients had identified their own and their carer’s employment as a potential source of stress. Carers reciprocated these concerns. In one case, a Pakistani-Muslim self employed accountant employed a business partner to reduce his workload at the request of his wife and eldest daughter who were convinced that his workload was excessive. Older white patients were encouraged by their spouses to rest more, but only one couple used the opportunity to relax together. This was achieved by listening to story tapes on a regular basis in the afternoons which both of them enjoyed.

Generally, family members – irrespective of ethnicity - felt they needed additional support from health professionals to perform their role as carers more effectively. Some individuals had been shocked and frightened by the experience and needed someone with whom to share their anxieties and negative thoughts. Others felt they had not been adequately prepared for their relatives discharge home and felt unable to cope. There was confusion within some families about the amount of help that they should be providing. Some family members, who had given up work to care for their relative, wanted advice about their eligibility for financial support as carers.

3.3 Dietary change

There were several ways in which families supported patients in adopting healthier dietary habits. This included providing information about the nutritional composition of foods and showing patients how to prepare healthier meals. White families seemed to
be better equipped to share information and were more likely to adopt healthier eating habits.

The nature of the meals prepared within households was obviously determined by the food purchased. For all families, provisions were not always purchased by the patient themselves. In some cases, couples shopped together; in others, older children who lived within close proximity to their parents assumed responsibility for buying food. The latter was particularly common amongst white families. In contrast, it was generally the male spouse in South Asian households who shopped for food items, either alone or with their offspring.

Responsibility for food preparation varied within and across ethnic groups. In white families, this responsibility was sometimes shared, which meant that husbands were just as likely to prepare meals for female patients as wives were for male patients. Consequently, white spouses could play an important role in helping their partners modify their diet. Daughters also tended to advise parents about healthier ways of preparing food. South Asian households were different. Food preparation was not generally undertaken by male members of the family. Within South Asian nuclear families, this role was the responsibility of the eldest female in the family, usually the mother. Some patients who were mothers found this role difficult as they suffered from pains in their chest and legs which made it difficult for them to stand for long periods in the kitchen. As a result, mothers tended to delegate the responsibility to their daughters. Within extended families, the patient tended to have less involvement in food preparation, as it was usually the daughters-in-laws’ role to prepare meals for the whole family. Within South Asian families, wives who were responsible for food preparation
typically reduced the amount of salt and fat used in their cooking to improve their husbands’ diet. Some wives, however, were unable to adopt this approach as their husbands were not willing to compromise on the taste of their food. In such cases, male patients opted to eat less rather than compromise on preferred taste.

There was an expectation within South Asian families that if the patient was male, that the rest of the family would adopt his dietary modifications. This was less likely to happen for female patients. Indeed many South Asian female patients were preparing a different main course for themselves as they did not consider it appropriate for the whole family to consume dishes perceived as less enjoyable or to exclude specific foods from their diet, such as red meat. This highlights important gender differences vis-a-vis expectations that patients have in relation to family support.

Not all female patients were satisfied with their food preparation arrangements. Some women reported that preparing separate dishes was time consuming and created unnecessary work. This led many to adopt the same unmodified dietary habits as their family. Rubina, a Pakistani-Muslim woman in her 40s, felt that it was more practical to prepare one dish for the whole family despite her husband being keen for her to eat a modified diet. She explained her dilemma:

_I just tend to cook for the whole of the family and then just eat from that. I mean I could separate some for myself but I don’t think there’s any point … My husband’s always saying “Oh … when you’re cooking take a bit out for yourself. You know, if there’s chicken and vegetables, separate it and you have it before … we add the oil to it”. But it’s me myself. I think, “Oh what’s the point? I’ll just_
eat whatever everyone else is eating”. I just decide to eat less of what they’re eating.

Maintaining dietary modifications was a challenge for patients particularly when they were eating away from home. Even within the home, some family members reported difficulties in encouraging patients to maintain dietary changes. For example, Bharti, the wife of Sanjeev, was keen to help her husband modify his diet and had reduced the amount of oil she used in her food preparation, even though she attributed stress rather than diet as the cause of his CHD. She found it especially difficult to control her husband’s craving for sweet foods and was unsure about ways in which she could encourage him to reduce his sugar intake. She described a strategy, used to reduce his sugar intake in tea:

I told him because I don’t take sugar he can stop and my daughter she doesn’t take sugar as well and I said, “If she can stop, I can stop, you can as well”. First I just put half a spoon, he said it wasn’t nice you know, I said, “OK a few days you try, if you don’t like it then you can start”. Now if he is not in a good mood, then he wants sugar and I give him a little bit on the side and I say if you want to put it in, you can. Otherwise he leaves it.

Patients’ resistance to dietary modification was a cause of concern for many family members, particularly adult children. Some children felt that though their parents had been told about the health risks associated with eating certain foods, it was extremely difficult to change eating habits among the older generation.

3.4 Exercise regimes
Family members gave their relatives varying levels of encouragement regarding physical exercise. About half the families in the sample had identified the need for their relative with CHD to exercise. Those family members who were most supportive in this way, tended to be those who exercised regularly themselves. However, the son of an elderly white woman, Elsie, found that it was difficult for him to give her advice about exercise when he was unclear about the advice he had been given by the hospital.

*If somebody sits you down face-to-face and has a little chat with you about it because unlike these information packs they give you, it’s not exactly interactive. I mean if you’ve got a question say well you know the information pack was designed for anybody and it was talking about 200 yards on one day then half a mile in several weeks. I mean there’s no way [my mothers] going to walk half a mile ever again … so you need to tailor it to the individual person involved so it would have been more useful if they could have sat you down just for five minutes.*

On the whole white families were more proactive than their South Asian counterparts in ensuring that patients incorporated some form of exercise into their lifestyle. Among the white sample, spouses and children encouraged patients to exercise whereas within the South Asian sample, children were most likely to emphasise the importance of exercise. Walking was the favoured form of exercise for most individuals. Some female patients in the sample, many of whom were white, were encouraged by their husbands to go out walking with them. While some patients participated in this way, others lacked motivation despite having the full support of another family member. This caused tension for those family members, usually spouses, who were desperate for patients to take more control of their recovery, although for some South Asian families, women
walking on their own, undermined cultural values. Some families also commented on
the dangers of women walking on their own.

The following cases illustrate the commonality of experience faced by South Asian and
white families in trying to provide support to someone with CHD. Rajesh, a 60 year old
Hindu businessman was particularly concerned about his wife, Priya, who was diabetic
and had suffered her first MI. Being diabetic himself he was conscious of the need to
follow a low-fat diet and exercise regularly. Given that his wife was not a fluent English
speaker, Rajesh had obtained a lot of information about rehabilitation on her behalf from
the cardiac rehabilitation nurses. Once Priya returned home, he took every opportunity
to educate her about the need for her to adopt a healthier lifestyle and reduce the
amount of time she spent sleeping. Having made sure that Priya joined the rehabilitation
programme, Rajesh assumed that she would modify her dietary habits and start
exercising on a regular basis. He was, however, disappointed when she refused to
accompany him on his daily walks and felt that there was a need for someone external
to the family who could provide information about the importance of lifestyle
modification, in her own language. He reflected upon his wife’s attitude:

For some it all depends on the taste and if they don’t like the taste they won’t eat
it. But it shouldn’t be whether it tastes nice or not, but more on what is good for
your health … I am always telling her but whether she understands is another
matter and it is of benefit to her. If her health is good then I will benefit also. For
her it is a matter of understanding. If I keep on about it, then she sees it as a bad
thing.
The second case involved James, the 69 year old husband of a white patient, Alice, who was diabetic and had a history of CABG and MI. As in the previous case, James attended his wife’s hospital appointments and was continually reminding her of the lifestyle changes she needed to make. In particular, he was keen for her to start walking as he felt this would assist her in losing weight and she had previously enjoyed this activity. Alice, however, was not keen to resume any form of exercise and instead felt the need to relax more which was a cause of increasing concern for James. He explained what he considered to be the main problem in terms of her rehabilitation:

*She doesn’t exercise … that’s the biggest thing and we talk a lot and I encourage her as far as I can but she’s obviously getting bigger and bigger and the bigger she is, the more she’s sleeping. I don’t mean there’s a relationship necessarily between those things. It’s probably her condition but somehow, somewhere, even if she was just exercising … she really has to get to grips with that I think.*

4. Discussion

A qualitative approach was used to examine the experiences of cardiac rehabilitation and the nature of family support across a large sample of South Asian and white cardiac patients and their carers. Findings showed that household structure varied both across and within ethnic groups. In general, white patients had smaller household than their South Asian counterparts and very few South Asian patients lived alone. The context of care, therefore, was different for white and South Asian samples, but the family remained a key provider of support, regardless of ethnicity. This finding is supported by others.\(^{16}\) Differences across household, however, can lead to mistaken assumptions on the part of health professionals.\(^{21}\) Since South Asian people typically lived in larger households, this might suggest that they might receive a greater level of social support than white patients. Closer examination showed that on the contrary, the larger size of
some South Asian families could make it difficult for families to prioritise the practical needs of patients.

The provision of education and health information for patients and their carers is a key component of cardiac rehabilitation, particularly since patients with cardiac conditions and their carers often develop misconceptions about their condition and its treatment. Moreover, there is evidence that such misconceptions are more common within South Asian and African Caribbean populations than the white population.

Recognising the importance of family involvement in the context of cardiac rehabilitation is not new. While findings from this study showed that most families were able to offer emotional support to patients, their ability to give patients practical help and advice varied considerably. For the majority of white families, spouses were most likely to have contact with health professionals and subsequently played a major role in supporting and encouraging patients in adopting healthy lifestyle modification. By contrast, for a large proportion of South Asian families, linguistic barriers meant that children, rather than spouses, were more likely to interact with health professionals and provide their parents with health information. The lack of direct communication with South Asian patients provided health professionals with little opportunity to emphasise the importance of family involvement in the rehabilitation process. It has been speculated that cultural differences are often incompatible with the couple centred model central to traditional cardiac rehabilitation programmes.

Linguistic barriers were evident in this study and these represented a significant obstacle to effective and comprehensive health information provision for patients. This, however, has been known for some time. It is disappointing that, at least in the cases we examined, limited progress appears to have been made in addressing
this problem. Accordingly, South Asian children were often required to interpret for their parent. In some cases, this led to children withholding health information from their parents, which they considered too distressing. It seems likely that children adopting the role of ‘interpreter’ may experience tensions, not experienced by their white counterparts, as they try to reconcile multiple roles of health information provider, carer and child. Other authors have criticised the use of family members as interpreters 15,33 and have highlighted that non-English speaking patients are not always offered the option of using an interpreter 20. The experience of our South Asian sample confirms this and although interpreters might, theoretically at least, be available, they were often difficult to access in practice.

With regard to lifestyle changes, such as dietary modification and physical exercise, differences across ethnic groups emerged. Within South Asian households, food preparation was normally undertaken by female members of the family who may have had little or no contact with health professionals. This lack of information limited opportunities to adopt more healthy dietary habits. South Asian families placed less emphasis upon encouraging patients to participate in regular physical exercise compared to white families. There also appeared to be some gender differences within South Asian families. Male patients appeared to get more family support during their recovery, while females attempted to modify their lifestyle with limited help.

This study has examined the experiences of cardiac rehabilitation and the nature of family support across a large sample of South Asian and white cardiac patients. However, findings must be considered in the context of study limitations. A larger sample structured according to ethnic origin, religious values and social class would
have enabled the research to explore further the differences and similarities within South Asian populations. It would also have enabled the research to explore the extent to which similarities between the South Asian and white sample could be attributed to social class.

5. Conclusion

There is considerable evidence suggesting services struggle to offer accessible and appropriate care to minority ethnic populations, without recourse to essentialised notions of difference (see\textsuperscript{23} for a review). Various discriminatory practices - revealed in professional assumptions and organisational practices - reduce ethnic minority communities to monolithic, homogenous wholes defined by their ethnicity, religion or culture, with little reflection on differences within and similarities across ethnic groups, as marked by gender or socio-economic position\textsuperscript{34}.

Our research identified several cultural and ethnic differences across our sample. Access to information, the context of support and the assumption of caring responsibilities within household, do reflect ethnic and cultural differences. Consequently, health care professionals need to develop a cultural repertoire to engage with diversity and difference. This includes an awareness of a person’s cultural and religious beliefs and ability to respond to them in an appropriate way, while valuing clients as both an individual and a member of particular community\textsuperscript{35,36}.

Our findings, however, also demonstrate similarities between patients and their families, irrespective of ethnicity. Ethnicity is not always a marker of difference. In presenting
our findings, patients and family members, articulate many similar concerns, worries and needs alongside low uptake of cardiac rehabilitation, irrespective of ethnicity. Family anxieties about what a person can or cannot do and the negotiation of family responsibilities, following CHD, reflect a generic experience. Not every problem or difficulty a person encounters as they attempt to gain access to appropriate service delivery can be attributed to his or her ethnic background. By improving services generally we can often improve support for South Asian populations. The challenge is to know when ethnicity makes a difference and mediates a person’s relationship with service support and when it does not.

From a practice perspective, health professionals must address linguistic barriers which potentially lead to misinformation for patients and carers combined with unnecessary tension for adult children required to interpret. Expert consultation should be sought from culturally appropriate advisory groups to develop interventions to support South Asians with dietary modification and physical exercise. The testing of these interventions should be the subject of future research. These interventions also need to take account of the diversity within the South Asian population as well as the similarities such populations have within the general population.

Table 1: Patient Characteristics n=65
<table>
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<th>Religious and Ethnic origin</th>
<th>Gender</th>
<th>Age in years Mean and(Range)</th>
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<td>Female</td>
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<td>10</td>
</tr>
<tr>
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<td>5</td>
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<tr>
<td>Indian Hindu</td>
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Table 2: Carers sample (n=54)

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<th>Daughter-in-law</th>
<th>Sibling</th>
<th>Other</th>
<th>Total</th>
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<td>2</td>
<td>-</td>
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References


