Living with heart failure: perspectives of ethnic minority families

Mahdi Shamali, Birte Østergaard, Hanne Konradsen

ABSTRACT

Background  The family perspective on heart failure (HF) has an important role in patients’ self-care patterns, adjustment to the disease and quality of life. Little is known about families’ experiences of living with HF, particularly in ethnic minority families. This study describes the experiences of Iranian families living with HF as an ethnic minority family in Denmark.

Methods  In this descriptive qualitative study, we conducted eight face-to-face joint family interviews of Iranian patients with HF and their family members living in Denmark. We used content analysis with an inductive approach for data analysis.

Results  We identified three categories: family daily life, process of independence and family relationships. Families were faced with physical restrictions, emotional distress and social limitations in their daily lives that threatened the patients’ independence. Different strategies were used to promote independence. One strategy was normalisation and avoiding the sick role; another strategy was accepting and adjusting themselves to challenges and limitations. The independence process itself had an impact on family relationships. Adjusting well to the new situation strengthened the relationship, while having problems in adjustment strained the relationship within the family.

Conclusions  This study highlights the process of independence as perceived by families living with HF. It is crucial to both families and healthcare professionals to maintain a balance between providing adequate support and ensuring independence when dealing with patients with HF. Understanding patients’ stories and their needs seems to be helpful in gaining this balance.

INTRODUCTION

Heart disease mortality has decreased over the past few decades in Western countries, including Denmark, even though it remains the most frequent cause of death, morbidity and economic burden for healthcare systems throughout the world.1 Among heart diseases, heart failure (HF) has become an epidemic in Europe and worldwide, causing increased healthcare expenditures and rehospitalisations.2

The diagnosis of HF influences all aspects of family life and brings multiple challenges to the lives of both patients and their families.3 4 HF is a chronic illness and often requires lifestyle changes due to a restricted life with increased impotence and dependency. Both patients and families are affected by a patient’s health status. Among HF families, couples’ adaptation and adjustment to the illness, sexual concerns, changes in daily life, overprotective behaviour and partner control, and shifting of domestic roles within the partner relationship are important issues.5 6 Families often are engaged in patient care in the treatment process of HF, mostly by providing different supporting roles, such as accompanying the patient to healthcare appointments, support for daily tasks, giving emotional support and providing care.7 8 The family perspective of the disease plays an important role in patients’ self-care patterns, adjustment to the disease and quality of life.8 9 Therefore, it is essential to understand family experiences of living with HF, not least in ethnic minority groups.

Knowledge of a person’s culture, experiences and social environment is crucial to the management of a person’s illness. In Iran, for
instance, it is common to conceal the true diagnosis of acute and chronic diseases from a patient because families are afraid of the loss of hope in patients that could lead to shortening their life. Moreover, some patients with heart disease in Iran view their illness as divinely determined and avoid lifestyle modification. They also consider diet food as being unsocial and isolates them from their social network. Another example is young Muslim women living with asthma in Denmark. They used praying as an alternative to medicine for controlling their symptoms. In China, ethnic minority patients with HF used less confrontation coping and more avoidance and acceptance resignation coping strategies.

A patient’s attitudes and beliefs regarding health and disease are rooted in family and social values within an ethnocultural background. Moreover, family structure, function and roles are influenced by culture and world views. The strategies immigrant families use to cope with the challenges of heart disease vary by ethnicity and length of migration. Well-understood ethnocultural communication between healthcare workers and patients may improve patients’ adaptation to illness. Insufficient knowledge of cultural differences in patients with heart disease can lead to differential treatment and referral patterns. Qualitative systematic reviews recommended further studies to explore the experiences of living with HF among people in ethnic minority groups.

Most previous research on HF is based on quantitative measurement and sparse qualitative studies that consider patient or partner separately; however, relatively little is known about families’ experiences of living with HF, particularly in ethnic minority families. The approximately 22 000 Iranians living in Denmark are the 10th largest immigrant group. To our knowledge, no study is known about families’ experiences of living with HF in Denmark has been reported. Therefore, this study aimed to describe the experiences of Iranian families living with HF as an ethnic minority family in Denmark.

**METHOD**

**Study design and participants**

A qualitative descriptive design was planned. We collected data using semistructured, in-depth, joint family interviews of patients with HF and their family members. This paper followed the Consolidated Criteria for Reporting Qualitative Research guidelines for reporting qualitative research.

Participants were Iranian families living in Denmark who had a family member with HF. Participants were recruited through snowball sampling and networking. No medical records were available to guide the search for potential participants. Therefore, the first families were found through personal contacts and social media; then these families were asked to facilitate contact with other families. The inclusion criteria were being a patient who had a confirmed diagnosis of HF and a family member who had the experience of living with the patient, had come from Iran and lives in Denmark, speaks Persian (Farsi) and has given verbal consent to participate in the study.

**Ethical consideration**

All participants were briefed about the study objectives and were informed that their participation is voluntary. Also, all participants were assured of the confidentiality and anonymity of their personal information. As proposed by Voltelen et al., ethical considerations were taken into account before (eg, ensuring informants understanding of what participation means), during (eg, being aware of disagreements between interviewees) and after (eg, ensuring the well-being of interviewees) conducting joint interviews.

**Data collection**

The face-to-face joint family interviews were conducted in Persian using a semistructured guide at a mutually convenient time and venue, from February to December 2019. Included in the joint family interviews were the patient and one of his/her family members. Eight interviews were conducted in a dedicated private room at participants’ homes. Of the eight patients, six were men and two were women. Of the eight family members, seven were spouses (six women and one man) and one daughter. All interviews were digitally recorded, ranging from 35 to 60 min, and conducted by MS, who is proficient in English and Persian. Table 1 shows the self-reported family members’ and patients’ demographic and clinical characteristics.

A pilot interview was conducted first to test the interview guide for understandability and appropriateness. The interview started with the warm-up question: Can you describe your experiences when you first started having trouble with your heart? followed by an open question: What are your experiences of living with HF as an Iranian in Denmark? Based on the patient’s and his/her family member’s answers, the interviewer asked follow-up questions to probe and clarify the experiences of a family living with HF. Examples of follow-up questions were as follows: How does the illness affect the daily life of your family/relationship? Can you describe a situation that illustrates what it is like to live with HF?

**Data analysis**

For data analysis, interviews were transcribed verbatim and checked against audio recordings to ensure accuracy. Then, Persian transcriptions were translated into written English so that the team’s two coresearchers could discuss and take part in the analytical process.

Content analysis using an inductive approach as proposed by Graneheim et al. was performed to guide the data analysis process. To allow for immersion and a sense of the whole, transcripts were read thoroughly multiple times. The text was then imported into the software programme NVivo V.12 (QSR International) to organise and manage the data. This was followed by
Table 1 Characteristics of patients and family members

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<th>Characteristics</th>
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<td>Patient</td>
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DM, diabetes mellitus; HF, heart failure; HTN, hypertension; IHD, ischaemic heart disease; LVEF, left ventricle ejection fraction; MI, myocardial infarction; NYHA, New York Heart Association classification of heart failure; RA, rheumatoid arthritis.

Extraction of meaning units, which were then condensed, abstracted and labelled with a code. The various codes were grouped into subcategories and categories through a process of comparison based on differences and commonalities. Then, all members of the team reviewed and discussed tentative categories and coding until consensus was achieved.

Rigour

The model of trustworthiness proposed by Elo et al was pursued to ensure rigour and trustworthiness. In the present study, credibility was enhanced by the data collection method (interviews), performing the first interview with a coresearcher who is an expert in the qualitative field and discussing the findings among the research team. Transferability was strengthened by a clear description of the setting, the sample’s characteristics, and the process of data collection and analysis. Findings are illustrated with quotations. Dependability was increased by engaging the two coresearchers of the team in data analysis and discussion of the final categories. Confirmability was strengthened by comparing findings with reported research.

Findings

Three main categories were identified: family daily life, process of independence and family relationships. Families with HF were constantly confronted with new challenges and limitations in their daily lives. They were shocked by receiving the diagnosis of the disease and searched for social and professional support, trying to understand and to overcome the situation. Families were faced with physical restrictions, emotional distress and social limitation in their daily lives, which threatened the patients’ independence. Different strategies were used to promote independence. One strategy was normalisation and avoiding the sick role; another strategy was accepting and adjusting themselves to challenges and limitations by searching for support and modifying family daily tasks. The independency process itself had an impact on the family’s relationships. Adjusting well to the new situation strengthened the relationship, while having problems in adjustment strained the relationship within the family. Table 2 shows the overview of the study’s findings with the example of codes and condensed meaning units.

Family daily life

This category illustrates challenges, changes and limitations that Iranian families with HF deal with in everyday life in Denmark, including physical restrictions, emotional distress and social limitations.

Physical restrictions

Patients experienced that their physical activities had decreased since the diagnosis of HF. There were certain things they used to do but were no longer able to do, so they had to live more calmly.

Patient: ‘I feel I should slow done the speed of my train’. (Family 5)

The diminished activities were influenced by symptoms such as tiredness, breathlessness and chest pain during
Table 2  Overview of the categories and subcategories identified in the study with the example of codes and condensed meaning units

<table>
<thead>
<tr>
<th>Example of condensed meaning units</th>
<th>Example of codes</th>
<th>Subcategories</th>
<th>Categories</th>
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<tbody>
<tr>
<td>I am not able to do activities that I used to do. When I do little activities, I become tired and need rest.</td>
<td>Decreased physical activities Fatigue and low energy</td>
<td>Physical restrictions</td>
<td>Family daily life</td>
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<td>I am afraid of being alone. I was worried what would happen to me. I do not have idea and motivation for the future like before.</td>
<td>Patient’s fear Anxiety Hopeless</td>
<td>Emotional distress</td>
<td></td>
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<tr>
<td>I cannot go rolling coaster with my children. I avoid crowded places.</td>
<td>Decrease joint activities Social isolation</td>
<td>Social limitation</td>
<td></td>
</tr>
<tr>
<td>I have nobody to help me; you cannot ask for help at all times.</td>
<td>Patient’s fear of losing independency</td>
<td>Fear of becoming dependent Process of independence</td>
<td></td>
</tr>
<tr>
<td>I do not collaborate with heart association because it gives me a feeling of being ill. I do not feel that I am ill.</td>
<td>Avoiding sick roles Normalisation</td>
<td>Facing dependency</td>
<td></td>
</tr>
<tr>
<td>They (family members) always tell me to take rest, but I have no problem to do some stuff.</td>
<td>Difficulty in communication Overprotective behaviour Good communication Positive effect of illness on relationships</td>
<td>Strained relationship</td>
<td>Family relationships</td>
</tr>
<tr>
<td>The illness made our family closer. She (wife) started to love me so much.</td>
<td></td>
<td>Strengthened relationship</td>
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physical activities. Some experienced low energy and decreased motivation to start new activities. This could give meaning in the light of HF but was also experienced as being related to old age. When decreased physical activities in the patients led to decreased ability to do daily tasks, family members tasks’ load increased to compensate and maintain family daily life.

Family member: ‘My daily tasks have increased. I used to work 2 hours in our shop, but now work more. I take the children to school and bring them home. I go shopping alone’. (Family 5)

Furthermore, the desire for sexual relationship diminished following HF as a result of medications. The weak sexual relationship led to decreased family intimacy.

Patient: ‘Our sex life has suffered. When sexual intimacy decreases, your relationship becomes cold’. (Family 2)

Patients also complained about the side effects of the medications. Bleeding was a common complication of using anticoagulants. It was very scary for the family members to see patients’ nosebleeds. Patients believed that their mood changed because of medications, becoming unstable and irritable, especially in the morning.

Emotional distress
The shock of receiving the diagnosis and the worry about the unknown future were followed by feelings of anxiety. When patients were alone at home or out visiting friends, families worried about what would happen if the patient had a new heart attack. Some family members called patients regularly to check their health status. Family members also worried more when patients could not do the daily tasks as they used to do. Spouses’ worries were understood by the patients and mentioned as natural among couples, but they also got annoyed if their spouses worried too much.

Most patients worried about a new heart attack and death, especially at the beginning of HF. Some patients could not sleep and were afraid of being alone and becoming ill in a place where no one could save them. One patient described:

I have a fear of enclosed spaces. Like when I’m in a room and the door is closed and I cannot open it. I panic. I have got this strong feeling when I had a heart attack. (Family 1)

There was a feeling of hopelessness and a loss of motivation for the future at the beginning of HF; therefore, families saw it as their task to give patients hope and encourage optimism.

Family member: ‘He lost hope and believed he couldn’t get through this new situation. We tried to speak to him and give him hope.’ (Family 8)

There was an experience of increased irritability, being more impatient and critical of others. It was difficult to be in a busy environment, which triggered a feeling of not being able to concentrate on daily tasks and a desire to be alone. Patients spoke critically of their own and others’ past behaviours, even though family members got annoyed when patients talked a lot about the past.
Social limitation
Family social life changed as a result of HF, and family joint activities were highly affected. Families changed their hobbies and activities so that the patients could also participate. Physical limitations and being impatient and intolerable were the most common reasons for the decrease in joint activities. Children were often left to themselves as a result of fewer joint activities.

Patient: ‘I feel that they [the children] are more alone. My children used to tell me about their problems, and I helped them to solve them, now I can’t’. (Family 5)

Physical limitations and emotional distress led to substantial social isolation. For example, patients’ work-life changed because they were unable to perform their duties at work. They tried to amuse themselves by working in their gardens at home. Patients also avoided social events because of emotional distress. Sometimes, patients declined to participate in social events, giving the excuse that they were busy or not interested rather than saying they could not participate because of physical limitations or emotional distress. Families often became socially isolated because they did not tell their neighbours and friends about the HF. They believed that it was not necessary to tell others about the disease, consequently, limiting their social contacts.

Process of independence
This category illustrates the way families dealt with dependence and how they tried to maintain and restore the independence of the patient with HF through different strategies. The process of independence started with the fear of becoming dependent and continued to face the dependency.

Fear of becoming dependent
It was frustrating for patients to lose control over their lives and worry about the unpredictable future of HF, which limited their choices in daily life. They were afraid of becoming dependent on others, and this gave them a feeling of being caged in by HF.

Patient: ‘I’m scared of what will happen to me. What if I have another attack and am immobilised or handicapped. Losing my independence is a big nightmare for me’. (Family 6)

Spouses were worried that patients could become more dependent in the future. They had no idea what to do if patient’s condition became worse but tried to stay positive about the future.

Facing dependency
Patients with HF faced dependence due to deteriorating health but strived to be independent using different strategies. One strategy was normalisation and avoiding the sick role. For example, they tried to hide limitations by stating that they had no problems in their daily lives and relationships, but after they started talking, they mentioned their problems. Patients perceived some level of limitation to be natural due to age and not related to HF. Patients were unwilling to be called a patient because they considered the term patient and illness a disability or limitation. Patients avoided activities that gave the feeling of being sick, such as being a member of a patient association. Moreover, patients refused support from the municipality and tried not to be a burden on the family to show their independence. In one family, normalisation had a life-threatening consequence leading to the patient’s second heart attack.

Patient: ‘One weekend, I had a headache and a feeling of nausea [crying]. My children said: mum, you are not OK! I said: Yes, but it’s not serious, I will contact my doctor on Monday. The family wanted to call an ambulance, but I said no. Later, I started to have chest pain and breathlessness. I called my son, and he came and took me to the hospital. That was terrible’. (Family 6)

Another strategy was accepting and adjusting to challenges and limitations. Families talked about adaptation as an aspect that helped them to integrate the restrictions into their lives and did not perceive this new situation as problematic, accordingly being able to manage their daily life successfully.

Family member: ‘Well, when we want to go out, we try to find a place he can also come to. We let him rest when he gets tired. We always find a solution’. (Family 4)

Patients believed that adaptation was harder for their family members than for themselves. Families searched for support to facilitate the adjustment process, and other family members and healthcare professionals were the most important sources of support. All families were satisfied with the support from healthcare professionals and felt they received the support they needed. Some families lacked family support because they lived alone. Families said there was no need to ask for support from neighbours or friends. Family members supported patients in daily life challenges and limitations but could not provide enough support when patients had emotional distress, so they also needed support from healthcare professionals.

Family relationships
This category illustrates the impact of HF on family relationships. Family relationships were influenced by the way families were confronted with dependence as a result of challenges, changes and limitations caused by HF. Adjusting well to the new situation strengthened the relationship, while having problems in adjustment strained the relationship within the family.

Strengthened relationship
Despite great limitations and distress following HF, some families reported that the disease had brought them
closer and increased solidarity. These families communicated well with each other and mutually adapted to this new situation following HF. Grandchildren were a good source of solidarity in the family.

Patient: ‘Visiting my grandchildren makes me feel good. I enjoy playing with them’. (Family 8)

Patients always looked forward to seeing their grandchildren. The future of the children and grandchildren was the highest priority in the family. Families tried their best to facilitate a bright future for their children and grandchildren. From the time HF was diagnosed, family members had more contact with the patient, were more available and visited more frequently. Families were engaged in HF management and tried to provide support to ease the process of adjustment, and in some situations, they also tried to adjust along with the patient.

Strained relationship
Family members experienced that it was difficult to deal with patients’ normalisation; being constantly worried about patients resulted in overprotective behaviour.

Family member: ‘When we were taking care of him, he said why are you doing this, I’m OK. I force him to go to the check-ups and encourage him to request more check-ups, but he doesn’t think it’s necessary. If he needed more check-ups, the doctors would tell him, he says’. (Family 1)

Patients withheld their feelings, emotions and symptoms in order not to cause anxiety in the family, which made them more isolated. Families found it hard to communicate with patients who hid their feelings and distress, making it impossible for them to offer help and support in many situations, which resulted in patients being left on their own. Some families did not talk with patients during their emotional turmoil, trying not to make the situation worse. They tried not to communicate with patients when they were in a bad mood. Examples of arguments were when patients forgot to take medications and family members had to remind them.

DISCUSSION
To our knowledge, this is the first study that describes the experiences of ethnic minority families living with HF using the joint family interview. Our key findings depict the daily challenges, changes and limitations imposed by HF on patients and their family members, which led to many physical and social restrictions, with distressing consequences for the affected Iranian families in Denmark. Consistent with our findings, the various physical problems (eg, breathlessness, chest pain, fatigue, decreased sexual function and side effects of medications) and emotional strains (eg, anxiety, fear and anger) were consistently reported in international studies on Eastern and Western patients with HF. Furthermore, changes in daily life and domestic roles, fatigue and anxiety in family members were identified in families with HF.

In line with others, we found that HF causes multiple progressive losses, leading to changes in or loss of social and joint activities, jobs and social roles. These consequences could affect well-being and result in emotional distress and compromise quality of life in patients with HF and their family members.

This study highlights the process of independence. Families with HF faced progressive, inevitable dependence due to deteriorating health and debilitating life. We noted a similar strong fear of becoming dependent on others and a tendency to be independent in studies on patients with different ethnicity and culture. Independence preserves dignity, self-responsibility and self-control, which are important values in the actions and decisions of daily life. In response to the physical, emotional and social effects of HF, patients developed different strategies to diminish the impact on their daily lives and maintain independence. Although some patients and family members in our study tried to pretend that everything was normal and avoided adopting a sick role, others tried to understand and accept these limitations and changes in daily life, accordingly, adjusting themselves to this new situation. A review of qualitative studies by Jeon et al. also reported that patients with HF use two common coping strategies, including sharing the illness experience with others and being flexible to changing situations to overcome the limitations imposed by the illness. Sharing experiences of HF with family members strengthen family relationships. Sharing experiences with others can also provide an opportunity to receive social support and overcome social isolation. In contrast to our findings, a study on Asian patients with HF reported spirituality as a coping strategy that helps patients to deal with this new situation. A study conducted in Iran also reported that some patients with heart disease consider their illness as divinely determined, which hinders them to change their lifestyle.

Normalisation and avoiding the sick role were often seen in our patients. Similarly, normalisation was reported as a management strategy in the families of young patients with congenital heart disease. Kaholokula et al. reported illness denial among patients with HF and considered it as a type of passive coping style. Kaholokula et al. reported two possible reasons, including fear of HF and lack of knowledge about patients’ denial of their illness. In our study, patients who used normalisation and avoided the sick role did not want to talk about their limitations or share experiences with others because they thought it would represent a loss of independence and self-control. In patients with chronic illnesses, it demands time, courage and trust to open up about illnesses and their impact on daily life and to ask for help. The situation can be complicated when patients hide their illness and suffering in order not to disturb those who would be able to help and support them. Therefore, it is important to acknowledge and address the fear of dependence and denial of illness while providing support for patients with HF.
Family members were aware of limitations and challenges and tried to help patients who used normalisation to adjust. But patients resisted accepting this new situation. In return, family members were constantly worried about the patients’ health; accordingly, they adopted overprotective behaviours. Overprotection refers to overhelping or restricting the patient in performing activities within a partner relationship.6 Consistent with the findings of Dalteg et al.,5 we found an overprotective behaviour from spouses towards patients regarding performance of activities and concerning lifestyle changes. Overprotective behaviours may cause higher levels of anxiety and depression in patients and make them feel frustrated.30 However, the patients in our study considered it to be normal behaviour among couples. This might be related to the fact that the patients in our study were mostly men and believed that female spouses care more than male spouses.

In our study, families were satisfied with perceived support from healthcare professionals, but they lacked family support. In contrast, Etemadifar et al27 conducted a qualitative study of family caregivers’ experiences of caring for patients with HF in Iran and reported a lack of both familial and professional support. The reason for the lack of familial support in our study was the unavailability of the family member because the patients lived alone in Denmark. Although family members were available in the study of Etemadifar et al, they did not have enough knowledge to support patients. Unlike our study, previous studies reported inadequate support from healthcare professionals in patients with HF.24,32 Professional support, in terms of informational and instrumental support, plays an important role in the adjustment process of families with HF. Social support from nurses can enhance family health and family functioning in families with HF, which are important elements in lifestyle modification.34 Social support can also enhance patients’ ability to self-manage their conditions.24 Hence, by gaining insight into families with HF’s experiences, nurses and other healthcare professionals can effectively help them to adjust to the new situation. Moreover, the lack of family support in the form of informational support is associated with more psychological distress and poorer quality of life among patients with HF.32 Family nursing therapeutic conversations improve perceived professional social support in both patients and their family members with HF.32 Therefore, nurses might be a good source of support to reinforce family support in HF, particularly among ethnic minority families.

In our study, a profound impact of HF on family relationships was found. We identified a shift in roles and responsibilities within the family relationship in response to the progressive dependency, which is in line with previous studies.6,35 Family members modified their daily lives to meet the patients’ needs and to compensate for the limited capacity of patients to perform daily tasks, resulting in less time for themselves and limited opportunities to socialise with others. Although family members’ daily tasks had increased and their lives were restricted, they did not perceive these as burdensome but as tightening relationships and contributed to a feeling of solidarity.35,36 The love and affection of the relationship motivate families to feel responsible for the patients.37 Similar to our finding, grandchildren were reported as playing a highly supportive role, possibly because children do not see their grandparent as an ill person, hence offering freedom in the role as a grandparent.38 Furthermore, in our study, some patients and family members experienced strained relationships. This might be due to the challenges faced by families in their daily lives because these could be extremely significant and complex, making it difficult for families to adjust properly to the new situations. Sometimes patients were not cooperative in the adjustment process due to normalisation and avoiding the sick role. Consistent with the finding of Dalteg et al.,6 family members found it hard to communicate with patients during their emotional turmoil, which resulted in patients being neglected by family members and isolated in the family. Our findings, in line with previous studies, indicate that interpersonal relationships within the family are an important factor in managing HF.37

The findings in this study must be considered with some limitations. Most patients were men (n=6), had mild HF (New York Heart Association classifications I and II) and were in relatively stable condition. Most family members were female spouses. Therefore, our findings should be transferred with caution to other types of patients and their family members. Future research considering female patients and male spouses with advanced HF may enrich our knowledge about the experiences of ethnic minority families living with HF. Our findings may reflect a sampling bias as we used snowball sampling; we might have included participants with their peers who share similar characteristics and experiences.

**CONCLUSION**

Consistent with previous studies, our finding showed that HF restricted many aspects of the daily life of Iranian families living with HF in Denmark. Moreover, the process of maintaining independence had a strong impact on family relationships, from strengthening the relationships to becoming overprotective spouses or withdrawing from patients, leaving them alone. Participants in our study received satisfactory support from healthcare professionals in Denmark; however, they lacked family support. Maintaining a balance between providing adequate support and ensuring independence is an important element that should be considered by both families and healthcare professionals when dealing with patients with HF. Understanding patients’ stories and their needs seems to be helpful to gain this balance.

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**Contributors** MS performed the interviews, collected the data and drafted the initial manuscript. All authors were involved in the study concept and design,
REFERENCES


