How Healthcare Professionals in Cardiac Care Address Depressive Symptoms: Experiences of Patients With Cardiovascular Disease

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How health-care professionals in cardiac care address depressive symptoms:
Experiences of patients with cardiovascular disease.

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Abstract

Background: Depressive symptoms are common in patients with cardiovascular disease (CVD) and are associated with a poorer quality of life and prognosis. Despite the high prevalence and negative consequences, the recognition of depressive symptoms is low. More knowledge about patients' perceptions of how depressive symptoms are addressed by healthcare professionals is therefore needed.

Objectives: The aim of this study was to explore CVD patients’ experiences of how healthcare professionals address and manage depressive symptoms in clinical cardiac-care encounters.

Methods: A qualitative, semi-structured interview study was performed. Data were analyzed using inductive thematic analysis.

Results: In total, 20 CVD patients previously treated for depressive symptoms were included (mean age 62 (range 34–79), 45% women). Three main themes emerged: (1) Not being seen as a whole person, (2) Denying depressive symptoms and (3) Being provided with help. The patients perceived that healthcare professionals mainly focused on somatic symptoms and disregarded their need for help for depressive symptoms when patients raised the issue. Some patients stated that they received help for depressive symptoms, but this depended on the patients’ own ability to communicate their needs, and/or having social support that could alert them to the importance of doing so. Patients also described that they downplayed the burden of depressive symptoms and/or did not recognize themselves as having depressive symptoms.

Conclusion: Depressive symptoms were overlooked in CVD patients and psychological needs had not been met. A good ability to address needs and having good social support were useful for receiving help with depressive symptoms.
Keywords: Depressive symptoms, Cardiovascular disease, Cardiovascular Nursing,

Qualitative research
**Background**

In patients with cardiovascular disease (CVD), including Heart failure (HF), Atrial fibrillation, Myocardial infarction and Angina pectoris (i.e. Ischemic heart disease), depressive symptoms are common. Between 20–40% of those with CVD have depressive symptoms, which is higher than the prevalence of depression in the general population. Moreover, depressive symptoms also have negative effects on CVD patients. Studies have shown that CVD patients with depressive symptoms compared to those without experience poorer HRQoL, and have an increased risk of cardiovascular complications and premature death. Both behavioral and biological mechanisms can explain these negative effects. Behavioral mechanisms can include lack of treatment adherence, delay in seeking hospital admission due to a worsening of CVD and resistance to performing necessary lifestyle changes. Biologically, depressive symptoms seem to lead to an increased stress and inflammatory response, which can lead to a worsening of cardiac health.

Having knowledge of which risk factors can lead to depressive symptoms in CVD patients may be helpful in preventing or detecting such symptoms. Studies have shown that being aged below 60 or over 70 years, being a woman, having severe CVD, or having other prior chronic conditions are such risk factors. However, despite the known risk factors, a high prevalence of depressive symptoms and their negative consequences for CVD, and the fact that European Society of Cardiology Guidelines recommend the treatment of depressive symptoms in patients with CVD, the recognition rate in cardiac patients is low. It has been estimated that as few as 15% of CVD patients with depressive symptoms are detected, and CVD patients are therefore at risk of not being offered treatment. This is important since the treatment of depressive symptoms in CVD may lead not only to improvements in the symptoms themselves, but also to reduced cardiac mortality.
There is limited knowledge as to why the recognition of depressive symptoms is low in CVD patients. Studies suggest that factors among health-care professionals such as lack of time, a focus on medical issues, and no belief in or understanding of the importance of treating depressive symptoms can be barriers for not recognizing such symptoms. Other barriers reported are health-care professionals’ belief that patients are resistant to receiving treatment for depressive symptoms as well as health-care professionals not being able to detect these symptoms. There could also be factors in patients that can act as barriers to recognizing depressive symptoms. Luttik et al. reported that half of CVD patients with depressive symptoms did not want help with treatment of these symptoms, but the reasons for this were not mentioned. Patients may not clearly express having depressive symptoms in their encounters with health-care professionals. In a previous study, depressed patients without CVD explained that they did not describe themselves as depressed due to the shame and stigma, fear of a negative response from the environment and lack of understanding about their depressive symptoms.

Studies focusing on patients’ experiences of how depressive symptoms are managed in clinical encounters are scarce, especially in combination with a somatic chronic illness. However, a study exploring patients with chronic illness and their beliefs regarding depressive symptoms reported that patients with chronic illness have difficulties in distinguishing between somatic and depressive symptoms, and fear being seen as mentally ill. This indicates that further work is needed to help us understand CVD patients’ different needs for the targeting and management of depressive symptoms in order to facilitate the recognition rate. By exploring the perspective of CVD patients, this study aims to contribute to a better understanding of patients’ experiences regarding how health-care professionals in cardiac care address and manage depressive symptoms in a clinical context. Therefore, the aim of this qualitative study was to explore CVD patients’ experiences of how
health-care professionals address and manage depressive symptoms in clinical cardiac care encounters.

Methods

This study is a qualitative, semi-structured interview study.

Setting and participants

Twenty adult CVD patients from southeastern Sweden were included in this study. To ensure that the research topic was addressed, the participants were recruited from an ongoing randomized controlled trial evaluating an internet-based cognitive behavior program (iCBT) aimed at reducing depressive symptoms in CVD patients. In that trial, patients were included if they had at least mild depression (Patient Health Questionnaire-9 score ≥5 points). Those patients who participated and completed at least one treatment module of the iCBT program between January and June 2017 were eligible for inclusion in this interview study. To achieve a broad sample with maximum variation, a purposive sampling method was used. For this thematic analysis, we aimed to include 20 patients. The first 35 participants included in the intervention were invited to participate in this interview study. These potential participants represented a range in terms of sex, age and type of CVD diagnosis and were contacted through e-mail. Out of the 35 invited participants, 20 were willing to participate in this interview study. All participants who had expressed willingness to participate were interviewed. No reasons for not participating were given by those who did not respond. During the final interviews, the authors checked that no new themes were identified, supporting the belief that the variation in the purposive sample had been reached. Characteristics of the participants are presented in Table 1.

This qualitative study conforms with the principles outlined in the declaration of Helsinki and was approved by the regional ethical review board in Linköping, Sweden (Dnr: 2016/72 31);
the iCBT trial is registered at clinicaltrial.org, identifier: NCT02778074. Participants in the iCBT study were informed verbally about the possibility of being contacted to participate in the present study and gave written informed consent. Before the interviews were conducted, the participants were informed that they could end the interview at any point during the process without stating a reason. The interviews were recorded with the participants’ agreement. All data from the interviews was handled confidentially, and the results are presented in such a way that no individual can be identified.

Data collection

Data were collected by means of telephone interviews which took place between December 2017 and April 2018. The interviews had an average duration of 28 minutes (range 15–49 minutes). All interviews were conducted by the first author (MW), a primary-care nurse specialist with previous experience of conducting health assessments by telephone and who is also a PhD student in the iCBT project. The interviewer had no previous relation to the patients and was not involved in their iCBT treatment. To ensure that all the topics of interest were addressed during the interviews, a semi-structured interview guide with open-ended questions (Table 2) was used for the purpose of one-to-one interviews. The interviews started with an introductory question: “Can you tell me about your heart disease?” This was followed by questions about depressive symptoms and patients’ experiences of how these were addressed and managed in their encounters with health-care professionals. Follow-up questions regarding by whom and how depressive symptoms were addressed were asked with the purpose of inviting the participants to elaborate upon their thoughts and experiences. In order to refine the interview guide to align with the research question, a pilot interview was conducted with one of the participants.
Telephone interviewing has been reported as equally effective as face-to-face interviewing. In collecting data for qualitative research, it has been found to be well accepted by participants and does not affect the final findings.\textsuperscript{26,27} Telephone interviews fit the design of this study due to the geographical locations of the participants, the freedom of accessibility and the integrity of the participants for whom the program was designed. The dates and times for the interviews were determined by the patients. All interviews were audio recorded, transcribed and uploaded into NVivo 12 for analysis.

**Data analysis**

The data were analyzed using a thematic inductive descriptive approach according to Braun and Clarke’s six phases in order to identify, analyze and report themes within the data.\textsuperscript{28} The data was first transcribed into text, read carefully and verified for accuracy. Then the transcribed text was coded, starting by generating initial codes in the data. After the initial coding, a search for initial themes was performed and the first draft of a thematic map was drawn. The initial themes were read again and reviewed in an iterative process against the transcript of the data and study’s aim, until the final themes were defined and named.

To ensure the credibility of the analyzed data, triangulation through multiple analysts was conducted in four steps. In the first step, five randomly chosen transcripts were independently analyzed by the co-authors (MW, JL, GM, MN, PJ). In this step, the co-authors compared their results for selective perceptions and agreed upon the initial themes. In the second step, another 10 transcripts were continually analyzed by all the co-authors in an iterative process and the themes were reviewed. In the third step, the remaining five transcripts were analyzed by the main author. In the last step, all the co-authors discussed, revised and agreed upon the final themes. Alternative themes and explanations which contradicted the results were tested during the initial and final analysis phases.\textsuperscript{29} The researchers had broad knowledge of CVD,
depressive symptoms and nursing sciences. To ensure the trustworthiness of the study, the authors discussed and defined the aim, methods and results. Trustworthiness can also be established by transparency in the data analysis, as shown in Table 3.

Results

In total, 20 CVD patients (Table 1) participated in the study (nine women, mean age 62 years (range 34–79)). Most of the participants were in a relationship (n=17) and were living in Sweden, in both rural and urban areas.

Three major themes were identified: (1) Not being seen as a whole person, (2) Denying depressive symptoms, and (3) Being provided with help. Each of these three major themes has two corresponding sub-themes (Table 3).

Not being seen as a whole person

The first major theme is that the patients felt that they were not seen or identified by healthcare professionals as having any psychological distress and were not treated correctly for their depressive symptoms. The way in which they described having needs that went unidentified and untreated varied from matter-of-factness to anger. Some patients felt that they were emotionally rejected by healthcare professionals when they attempted to initiate a discussion about their depressive symptoms.

The staff did not address my psychological needs

Common among the patients was the experience of psychological needs being neglected. The issue of depressive symptoms was either not mentioned at all, only briefly mentioned during the encounter or presented in a leaflet that patients found in the waiting room. There was a
sense that depressive symptoms were not taken seriously or were not part of the treatment
during their cardiac care. This led to a feeling of being alone with the depressive symptoms
and, despite having received help, patients felt that this help or its quality was not enough to
achieve the feeling of having received help.

 Everyone who gets heart problems must get really anxious, but the health service
doesn’t dare to talk about, talk about what they can’t cope with listening to, they don’t
want to hear about how you’re feeling. (Participant no. 7)

Moreover, patients who were depressed and expressed a need for help with depressive
symptoms felt helpless and rejected because their needs were denied, or they were told to
seek another health-care professional for their depressive symptoms.

 You see, you don’t get treated in a way that, yes, you have to talk to your GP about
that, that’s not something we can do much about. Even if they don’t come right out
and say it, it’s like it’s … understood. (Participant no. 4)

The staff focused on my somatic symptoms

A recurring description was that health-care professionals only focused on the somatic
aspects of heart disease and did not see the whole person. While the focus remained on the
somatic factors, the other aspects of having heart disease were not seen or recognized.

 And at that time no one knew that it was also having an impact mentally. It was only
focused on the physical part. How you were doing, and how you felt and what not,
you didn’t talk about anything else. (Participant no. 20).
Denying depressive symptoms

Patients perceived that they had been in denial concerning their depressive symptoms in previous encounters with health-care professionals or did not want to reveal their psychological condition.

Diminishing and reducing the burden of depressive symptoms

A recurring perception among patients was that they remembered reducing the severity of their depressive symptoms during the encounter with the health-care professional, even if they felt a need for help with these symptoms. Many of them blamed themselves for not mentioning depressive symptoms and thus not receiving help. Patients stated that they had difficulties in initiating a discussion about depressive symptoms and sometimes reported suppressing their need for help or guidance.

No, I really felt it was more the physical problem that was urgent and that we talked about. And it’s highly likely that I tried to hide these mental problems, because I was still at work and hadn’t retired and wanted to be fully committed, instead, you know, getting right down to it. (Participant no. 11).

Did not recognize my symptoms as symptoms of depression

Patients stated that they did not recognize that they had depressive symptoms until later in the treatment process. It was only when enough time had elapsed after the heart event and they had had time to reflect upon their heart disease that they realized they also had depressive symptoms.
As time goes by it’s become more, like, has come as thoughts, in situations actually then linked to other things that happened, so these types of reflections have started popping up. And I’ve, like, gradually started to think about it. (Participant no. 17)

Being provided with help

In this theme, patients did experience being seen and helped by health-care professionals regarding their depressive symptoms. The experience of getting help for their depressive symptoms depended on either having the ability to communicate their needs regarding these symptoms to their health-care professionals or having social support to alert them to communicate their needs.

I was able to communicate my needs

Some participants stated that their psychological needs had been met, and described how they had been guided towards treatment and the recognition of their depressive symptoms. However, most of those who received help with treatment for depressive symptoms had taken the initiative themselves to start treatment.

Because I felt that this wasn’t good. You have to get some help. So, making contact with the psychiatric department, actually, I made contact with them myself. And then I got help there, and so I got signed off work and got talking therapy and treatment. So it got sorted out. (Participant no. 20)

My social support helped me express my psychological needs

Many patients described how guidance from relatives or close friends was a help in addressing depressive symptoms. Most of the social support the patients received came from
relatives or close friends who worked in health care or had previous personal experience of
the health-care system.

Of those who stated that they had received help for their depressive symptoms, the majority
had received guidance or information during cardiac rehabilitation that helped them to
recognize depressive symptoms and express a need for help with them.

I went to one of those heart schools. And there with the cardiologist, like and so then
this offer came up of talking to someone as well. (Participant no. 3)

**Discussion**

To the best of our knowledge, this is one of the first studies to explore CVD patients’
experience of how depressive symptoms are managed in encounters with cardiac care. We
found that CVD patients with depressive symptoms have different experiences and feelings
about how these symptoms were addressed by health-care professionals in cardiac care.
Overall, there was a feeling of not being seen as a whole person and that patients with CVD
tend to minimize their depressive symptoms, blaming themselves for not asking for help or
not showing clear symptoms of depression. Nevertheless, some patients felt that they had
received help and treatment.

In this study, patients stated that the issue of depressive symptoms is avoided, both by
themselves and by health-care professionals. Patients experienced that health-care
professionals were mainly focused on the somatic aspects of their heart disease and felt that
their psychological needs were not an important part of the CVD treatment and that there was
no time to talk about how they felt mentally. One possible explanation for this is that health-
care professionals believed that patients also wanted to focus on their heart disease since this
was the primary reason for the clinical encounter. These experiences were described from the
subjective perspective of the patients; however, the results of a study investigating primary-care physicians’ attitudes about the treatment of depressive symptoms in patients with HF or chronic pulmonary disease confirms these experiences. That study reported that common reasons for not offering the patient treatment for depressive symptoms were lack of time and focusing on medical issues.\textsuperscript{16} The experience of not being met as a whole person may lead to the patient developing mistrust of their caregivers, which can result in patients not being comfortable about addressing issues that are experienced as sensitive, such as depressive symptoms. This is important because CVD patients who report low trust in their health-care professional are at higher risk of experiencing a worsening of their depressive symptoms.\textsuperscript{30}

Furthermore, HF patients who still have, or have developed, depressive symptoms 18 months after discharge from hospital are at a higher risk of a worsening prognosis.\textsuperscript{31} This highlights the importance of seeing the patient as a whole and not only as a heart disease.

Another reason for not detecting depressive symptoms is that patients experienced difficulties in addressing these symptoms. Some patients described being aware that they didn’t feel mentally well, but still felt unable to verbalize their state. Some patients stated that they minimized their depressive symptoms during encounters with health-care professionals and blamed themselves for not clearly expressing them. This can be a sign of being afraid of being stigmatized, which is a common consequence of depression.\textsuperscript{32} Stigma is associated with the belief that they will be perceived as repellent by others within their environment.\textsuperscript{19,33} A study investigating heart failure patients’ views of living with depressive symptoms reported that negative thinking and self-blaming were reasons for not asking for help.\textsuperscript{34} This highlights the importance of health-care professionals being aware of the stigma of depression or that CVD patients may have difficulties in understanding that they may have co-morbid depressive symptoms. Thus, patients need to learn and understand that depressive symptoms are common in CVD and are not a sign of weakness but could rather be seen as a
normal reaction to having a life-threatening disease. Another reason could be due to symptom overlap. Patients reported that, at that point, they did not fully recognize their symptoms as depressive, or that they believed their symptoms were part of the heart disease. It has been shown that chronically ill patients, such as those with CVD, can have difficulties in identifying depressive symptoms because these can overlap with somatic symptoms of the CVD.22,35 This suggests that health-care professionals need to be aware of the negative consequences of depressive symptoms in CVD and create a positive clinical-care encounter that encourages the patient to reveal and talk about psychological needs.

Although some patients stated that they were able to communicate their depressive symptoms and ask for help in the clinical encounter, this was mostly related to having social support that alerted them to the possibility of doing so, which has also been reported in other CVD studies.36-38 Furthermore, having self-confidence and knowledge about depressive symptoms are important factors for addressing and therefore receiving help for such symptoms.37 This demonstrates that CVD patients with depressive symptoms who do not have these resources are at risk of not being detected or treated for their depressive symptoms.

Limitations

A limitation could be that this study only describes personal experiences from the patients’ viewpoints and does not capture the issues from all perspectives, which may limit the breadth of the results. Another possible limitation is that the participants may have been biased due to their agreement to participate in the program for treatment of depressive symptoms, and thus were possibly not satisfied with the help they had received previously. Furthermore, although we tried to include study participants of different ages, gender and CVD diagnosis, we were not able to include a big variation in CVD diagnosis (1 participant with heart failure, 11 with atrial fibrillation and 8 with coronary artery/MI/angina). For this reason and because the
study is conducted in Sweden, the results of this study may not be transferable to all CVD patients.

Conclusion

In this study exploring CVD patients’ experiences, they stated that their psychological needs had not been met and that depressive symptoms were overlooked by health-care professionals in cardiac care. This highlights a need for health-care professionals to see the patient as a whole to enable the easier detection of depressive symptoms and as an attempt to build trust with the patient in order to avoid worsening the trajectory of their illness. CVD patients with the ability to address their own needs are better equipped to receive help with depressive symptoms. To strengthen the trust between CVD patients and caregivers and the patients’ own ability to address their needs, health-care professionals should talk about and assess depressive symptoms and encourage CVD patients to express emotional problems. More research is needed that focuses on the CVD patient’s perspective of having depressive symptoms. Also, there is a need to explore health-care professionals’ perceptions of how depressive symptoms should be addressed and managed in encounters with CVD patients.

What’s New

- CVD patients experience that their psychological needs are neglected and expect health-care professionals to also discuss depressive symptoms.

- During the encounter with health-care professionals, CVD patients either do not reveal their depressive symptoms or they reduce the severity of these.

- To be recognized as having depressive symptoms and receive treatment for these, CVD patients need social support or an ability to communicate their needs.
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Table 1. Characteristics of patients participating in the study (n=20)

| Characteristics          | Frequency (n=20) | Percent (%) |
|--------------------------|------------------|-------------|
| **Sex**                  |                  |             |
| Female                   | 9                | 45          |
| **Age**                  |                  |             |
| Mean year (SD)           | 62 (12)          |             |
| **Marital Status**       |                  |             |
| Living with partner      | 17               | 85          |
| Living alone             | 3                | 15          |
| **Education**            |                  |             |
| Elementary               | 2                | 10          |
| Upper secondary/high school | 7              | 35          |
| University               | 11               | 55          |
| **Occupation**           |                  |             |
| Working                  | 12               | 60          |
| Retired                  | 8                | 40          |
| **Type of cardiac disease** |               |             |
| Heart failure            | 1                | 5           |
| Atrial fibrillation      | 11               | 55          |
| Coronary artery/MI/angina | 8              | 40          |

MI: Myocardial Infarction
Table 2. The interview guide*

Samples of interview guide questions

Introduction:

You have been in contact with the health service and been treated for your heart disease. In conjunction with this, you have also been treated for depressive symptoms using our online CBT program.

Question 1

1.a Talk a little about your heart disease.

Question 2

When you become ill with heart disease, aside from your physical health, your mental health can also be affected. For example, some patients have problems with depressive symptoms after becoming ill.

2.a When you have been in contact with your care provider about your heart disease, have you ever discussed your mental health (e.g. depressive symptoms)?

2.b Who brought up the issue of mental health?

2.c What do you think about the information you received that dealt with mental health in cases of heart disease?

2.d What did you do? If nothing, in what way would you have wanted the staff to bring up this issue with you?

*All interviews were conducted in the participant’s native language. The interview guide is translated into English for presentation purposes. ICBT: Internet cognitive behavior treatment
Table 3. Example participant quotes and overview of categories, sub-themes and themes of the analysis

| *Quotes                                                                 | Categories                                   | Sub-themes                                    | Theme                                      |
|------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| “It’s so transformational and such a big thing to get problems with your heart, because it’s still what propels your whole life. Everyone who gets heart problems must get really anxious, but the health service don’t dare to talk about, talk about what they can’t cope with listening to, they don’t want to hear about how you’re feeling.” | Caregivers did not ask about depressive symptoms | The staff did not address my psychological needs | Not being seen as a whole person          |
| “But I remember that I had to fill in a form with some nurse there, about some sort of check-up on how I was feeling. Because I know I felt really bad, because I had so much back pain at the same time for, I’d had it for a long time. That I hadn’t been able to sort out then. And I remember that it was, yes, really bad, in purely physical terms, I remember that. But it was never … it hasn’t been discussed. I can’t remember anyone having asked that.” | Feeling of not receiving enough or correct help | Feeling of having been abandoned by the health-care system | |
| “You get left alone with being ill, you have to just cope with it, it’s not interesting for them. They get extremely irritated if you bring up something like that.” | Feeling of not being in control of the disease | Focus on the somatic symptoms focused on my somatic symptoms | |
| “You see, you don’t get treated in a way that, yes you have to talk to your GP about that, that’s not something we can do much about. Even if they don’t come right out any say it, it’s like it’s … understood.” | The staff focused on my somatic symptoms | |
| “And not just the fact that it’s physical things this is about. I would have preferred it if they’d said a bit more.” | |
| “Nothing, never ever, they have never asked how I’m feeling. I go there and they book an appointment for cardioversion and so you go in and they do they cardioversion and they check that everything is good and then you go home.” | |
| “No, but it was really relatives who said to me that I should get help because having someone to talk to and someone to talk things through with and what not, you know. But … Then I was … I’m perhaps the kind of person who … Like I didn’t directly take the initiative to get someone to talk to either.” | Blaming himself for not receiving help. | Diminishing and reducing the burden of depressive symptoms | Denying depressive symptoms |
| “Because I’ve been really bound up with my illnesses, so I can’t really say that I’ve been exactly active in talking about them.” | Reducing the problem symptoms of depressive symptoms. | |
| | | | |

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“No, I really felt that it was more the physical problem that was urgent and that we talked about. And it is highly likely that I tried to hide these mental problems, because I was still at work and hadn’t retired and wanted to be fully committed instead, you know, getting right down to it.”

“As time goes by it’s become more, like, has come as thoughts, in situations actually then linked to other things that happened, so these types of reflections have started popping up. And I’ve, like, gradually started to think about it.”

“Because I felt this wasn’t good. You have to get some help. So, making contact with the psychiatric department, actually, I made contact with them myself. And then I got help there, and so I got signed off work and got talking therapy and treatment. So it got sorted out.”

“It was enough that I was seeing the cardiologist and talking with nurses and such. Because … they offered, uhh … and go there with … I went to one of those heart schools. And there with the cardiologist, like and so then this offer came up of talking to someone as well.”

“Such a good family, eh! I have a capable wife who’s taken care of me, both physically and mentally. I have two wonderful children who’ve looked after me and this woman whom I’m friends with is a nurse, you see, has changed career a bit, but was originally a nurse, knows everything about these things, she’s been other things you know, even so, she’s been involved in cancer care and knew about all that stuff. I’ve got good help there, haven’t I?”

*All quotes were in the participant’s native language and then translated into English for presentation purposes.*