Understanding men’s psychological reactions and experience following a cardiac event: a qualitative study from the MindTheHeart project

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ABSTRACT

Objectives Emotional issues such as depression, anxiety and post-traumatic stress disorder are common following a cardiac event. Despite their high prevalence, they often go undiagnosed and research suggests that men in particular are at higher risk. Therefore, a better understanding of men’s experiences with a cardiac event and ensuing health services is key for adapting approaches that meet their needs. The aim of this study was to describe the self-reported emotional challenges that men face following a cardiac event and to understand their patterns of psychosocial adjustment.

Design Qualitative study (focus groups and one-on-one interviews) using an interpretive phenomenological analysis.

Setting Clinical settings (cardiac departments in hospitals, cardiac rehabilitation programme and family medicine clinics) and in the community in three Canadian provinces.

Participants A total of 93 men participated in the study through 22 focus groups and 5 semi-structured interviews, none has been excluded based on comorbidities.

Results Four major themes emerged: (1) managing uncertainty and adversity; (2) distancing, normalising and accepting; (3) conformity to traditional masculine norms and (4) social, literacy and communication challenges.

Conclusions Healthcare professionals caring for men following a cardiac event must be aware of the psychological and social adjustments that accompany the physical challenges. However, there is a lack of explicit guidelines, tools and clinical training in men-sensitive approaches. Further research is required to better inform clinical practices and healthcare services.

INTRODUCTION

Emotional issues such as depression, anxiety and post-traumatic stress disorder (PTSD) are common among patients who experience a major cardiac event (ie, acute coronary syndrome (ACS)).1 Despite high prevalences, these symptoms and psychological disorders often go undiagnosed and contribute to an increased risk of related morbidity and mortality, as well as social and economic vulnerability.2 Psychocardiology, or clinical psychology in cardiac settings, is the science and practice of applying psychological knowledge to the prevention, treatment and rehabilitation of patients with cardiac disease.3 From this perspective, psychological and cardiac issues are interdependently addressed by collaborative interprofessional teams through patient-centred approaches.

Stepped-care models include a continuum of mental health interventions and services required to provide adequate health services and support in the most cost-efficient manner, based on patients’ needs and choices. These models have shown effectiveness with different health conditions, including cardiac disease.4–7 However, the last two decades of research in psychocardiology...
show that <25% of men with ACS engage in secondary prevention delivered by cardiac rehabilitation centres, seek support or use appropriate timely interventions for their psychological distress and mental health. Implementing effective psychocardiology stepped-care services for this population would require taking into account the social and behavioural determinants of men’s health. To our knowledge, no research has been conducted on the acceptability and feasibility of a stepped-care model approach to psychological treatment that has been specifically designed to be sensitive to the needs and expectations of men with cardiac disease.

The MindTheHeart programme, an innovative psychocardiology initiative launched in three Canadian provinces, aims to improve the prevention, early detection and treatment of depression, anxiety and PTSD in men following a cardiac event. The cornerstone of this programme was to design and test the feasibility and acceptability of a stepped-care approach to treatment structured into: step 1: psychoeducational intervention, step 2: group therapy including sessions with a significant other and step 3: individual or couple therapy based on patient’s preference.

To appropriately design and tailor this stepped-care model to the needs of men following a cardiac event, it was essential to gain a better understanding of their experience with cardiac disease and existing health services (or lack thereof). For the purpose of this article, our aims are to describe the self-reported emotional challenges that men face following a cardiac event and to understand their patterns of psychosocial adjustment.

METHODS

Study design

A qualitative study was conducted using an inductive phenomenological qualitative approach to provide a detailed description of the experience of men with cardiac disease while staying true to the collected qualitative data. The CONSolidated criteria for REporting Qualitative research were used to structure this study and ensure its methodological quality.

Participants

Convenience samples were recruited through cardiac rehabilitation programme and cardiac departments or clinics at teaching hospitals as well as in the community in three Canadian provinces: New Brunswick, Ontario and Quebec. To recruit participants, we used a combination of both active (patient solicitation at participating cardiac rehabilitation programme and a snowball technique) and passive (radio broadcasts and advertisements in local newspapers) strategies. The inclusion criteria were: (1) to be 19 years and over in New Brunswick, and 18 years and over in Ontario and Quebec; (2) to have had a myocardial infarction, unstable angina or heart surgery in the last 5 years with or without depression, anxiety or PTSD; (3) to be able to read and speak English or French; (4) to be able to provide informed consent and (5) willing to participate in a group discussion. A sampling frame was developed to capture variation in age, marital status, cardiac health, mental health conditions, spoken language (French or English) and socioeconomic status.

Data collection

Data collection took place between May 2016 and August 2017. The focus group qualitative technique was selected to gather information. This technique is appropriate for exploring patients’ experience and perspective through a collective discussion. Interactions and discussions between participants are encouraged. Experiences and opinions are shared and explored while participants are questioning or challenging one another or disagreeing with one another. Initially, only focus groups were planned, but due to challenges in recruiting a sufficient number of participants (time constraints, limited availability due to summer vacations, reticence to partake in a group discussion), we also carried out a total of five (n=5) one-on-one semi-structured interviews to ensure inclusiveness. Focus group discussions were facilitated by two members of the research team using a discussion guide (see online supplementary appendix 1). A preliminary version of the guide was reviewed by four male patients (two French and two English) to assess its intelligibility and appropriateness. Psychology and medical research staff, including the authors, conducted the focus groups and semi-structured interviews. The same interview guide was used for the semi-structured interviews, which were conducted either face-to-face or by telephone. Participants were aware of the study’s aims and objectives. They had the opportunity to ask questions to the interviewers prior to giving written informed consent to participate. Focus groups and semi-structured interviews were conducted in English or French based on participants’ preference and took place at either a hospital or university setting. Data collection continued until information and conceptual saturation was reached.

Data analysis

The audio-taped focus groups and semi-structured interviews from the three provinces were transcribed verbatim and anonymised. When available, the field notes taken by interviewees were included in the analysis. An interpretative phenomenological analysis (IPA) was used to guide the thematic analysis of the data. IPA is an inductive qualitative content analysis that allows for the description of patterns without a priori theories or models to guide the analysis. The aim of IPA is to explore in depth the participants’ personal experiences, their meaning for them, how they make sense of these experiences and what they would recommend to better meet their needs. The analytic approach followed iterations of thematic content analysis and codes were created through open and axial coding to capture emergent themes.

To effectively manage the amount of collected data, we organised a collaborative analytic team. The first author
was responsible for the data analysis management process including the development of the MindTheHeart manual for the qualitative study, the delivery of data analysis training sessions and the development of a codebook. She acted as a referee when needed. To ensure consistency in data analysis, 10% of the transcribed verbatim were randomly selected and four analysts independently coded 10% of the material. This strategy allowed the calculation of the intercoder reliability.17 The intercoder reliability check consisted of coding and comparing the findings of each of the coders (2×2). The Cohen coefficient was used to assess to what extent the data deviated from perfect reliability. A coefficient of 80% or more was considered appropriate. Once this was reached, we considered that all analysts were using the same interpretative approach and data were analysed in a complementary manner. We performed three rounds of intercoder reliability tests and two rounds of data analysis training sessions to create a convergent analytic approach. The transcribed material was analysed through a systematised analytic process under the shared server of NVivo11-Pro (QSR International, Doncaster, Victoria, Australia).

Patient and public involvement

Patients were not involved in the design of this study. Results were presented through public talks.

RESULTS

A total of 22 focus groups (88 men) and 5 semi-structured interviews (5 men) were carried out. In total, 93 men participated across the three provinces. Each focus group consisted of three to six participants and lasted 85–155 min (mean=147 min). The semi-structured interviews with single participants lasted between 60 and 90 min (mean=82 min). The sociodemographic characteristics of the participants are presented in table 1. In terms of mental health status, we asked the following question: “Are you suffering from a mental health issue?” In the New Brunswick sample, three men reported suffering from depression, two reported suffering from depression and anxiety and one reported PTSD. In the Ontario sample, four men reported having anxiety, three reported depression and one indicated having anxiety and depression. In the Quebec sample, two declared anxiety and one noted depression. Being self-reported, this information presents with obvious limitations (ie, lack of precision in regard to diagnosis and severity, based on patient interpretation, missing data). In terms of heart disease, we asked the following question: “Are you suffering from a cardiac event?” In the New Brunswick sample, three men had experienced an ACS and 9 had undergone open heart surgery (8 had coronary artery bypass grafting and 1 had a valve replacement). In Quebec, six men declared an ACS and two had undergone open heart surgery. Of the Ontario sample, 3 declared having undergone heart surgery and 23 experienced an ACS. This information is again based on self-report, and thus presents with limitations (as previously noted).

Interpretive phenomenological analysis of the gathered qualitative data from the three provinces highlighted emotional issues, as well as patterns of psychosocial adjustment challenges, faced by men following a cardiac event. Emerging themes were categorised and are presented here. Quotes have been reproduced to illustrate key points. To preserve anonymity and confidentiality, quotes were tagged using a pseudonym (male name). French quotes were translated into English for the purpose of this publication.

Managing uncertainty and adversity

A temporal sequence emerged across data as being instrumental in affecting men’s experience following a cardiac event.

“Not me, not now!” Denial reaction and delay in seeking help

Refusing to recognise the cardiac event and purposely delaying the hospital (emergency department) visit seems to be a prevailing behaviour among men. “I was working, my back got very sore, and I broke out in a cold sweat, but I finished my shift. I knew … it was my heart. So, I went home, showered, ate a little bit and had my last cigarette, cause I’m a smoker.” (Gérard) “I rolled over in bed a couple of times when I should’ve gone to the hospital. Cause I know my wife would freak out, she’d be worried about me, right? And I know I’d be in the hospital for 12 hours, which would mean I couldn’t go to work the next day. So I’m just going to roll over and just, you know, roll the dice on this, on this event, today, and see how it goes.” (Tim) “I was home with chest pains. Not pain, but just pressure in my chest. Never for a minute, for a second, did I clue in that I had a heart problem on Thursday. I went back to work on Friday. Same pain, but when I sat down and rested, it went away. On Saturday I was home. I started my power saw to cut branches on trees and cut down a tree, and clean up the yard. And I only went to the doctor on Tuesday of the following week. Expecting to go there and he would say ‘Take a few tests and you’ll go back home and we’ll call you in a few weeks’. Well, it changed when he said ‘You’re not going anywhere. You’re going to be here a few days’. And I realised I was stupid. I should’ve gone on Thursday’. (Gary)

Across discussions, two contrasting explanations for the denial reaction and delay in seeking help emerged: (1) the sense of invincibility perceived by younger men (aged 30–50 years), as they did not see themselves at risk and could not understand or accept why they suffered a cardiac event; “younger men are brought up to feel that they are a bit invincible, that you know, they’re bullet proof and you know that doesn’t happen to them” (Paul), as well as by older men who had previously recovered from severe illnesses such as a heart attack or a cancer and perceived themselves as warriors, “I survived a cancer before, I

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### Table 1  Sociodemographic characteristics of participants

| Age range (years) | Ethnicity | Education | Marital status | Employment status | Language |
|-------------------|-----------|-----------|----------------|------------------|----------|
| **New Brunswick** |           |           |                |                  |          |
| Focus groups—(eight groups for a total of 37 men) | 45–79 | Caucasian: 37 | Secondary: 17 | Single: 3 | Employed: 13 | 6 EN |
|                   | 64.2 (±9.7) | College: 4 | Married: 25 | Married: 2 | Retired: 18 | 2 FR |
|                   |           | University: 16 | Common law: 4 | Widowed: 2 | Employed+retired: 1 |         |
|                   |           |           | Divorced: 2 | Widowed+divorced: 1 | Semi-retired: sick leave: 3 | |
|                   |           |           |                 |                   |          |        |
| Semi-structured interviews (four men) | 45–54 | Caucasian: 4 | Secondary: 1 | Single: 2 | Employed: 3 | 3 EN |
|                   | 51.5 (±4.8) | College: 3 | Married: 2 | Sick leave: 1 |           | 1 FR |
| **Ontario**       |           |           |                |                  |          |
| Focus groups—(nine groups for a total of 36 men) | 51–90 | Caucasian: 34 | Primary: 3 | Single: 1 | Retired: 28 | 4 EN |
|                   | 65.8 (±15.5) | Caucasian+Jewish: 1 | Secondary: 2 | Married: 19 | Sick leave: 3 | 5 FR |
|                   |           | Caucasian+first nation: 1 | College: 7 | Common law: 7 | Employed+retired: 5 | |
|                   |           |           | Separated: 2 | Divorced: 7 |           |        |
| **Quebec**        |           |           |                |                  |          |
| Focus groups—(five groups for a total of 15 men) | 45–75 | Caucasian: 15 | Primary: 2 | Single: 2 | Employed: 1 | 1 EN |
|                   | 67.5 (±8.9) | Secondary: 4 | Married: 9 | Married: 2 | Retired: 12 | 4 FR |
|                   |           | College: 4 | Common law: 4 | Widowed: 2 | Sick leave: 1 | |
|                   |           | University: 5 |               | Widowed+divorced: 1 | Unemployed: 1 | |
| Semi-structured interview (one man) | Not included to protect for privacy | | | | |

EN, English; FR, French.
havent much of a fear of dying”. Pat) and (2) the sense of vulnerability expressed by men who described the cardiac event as a loss (of control, of power, of dignity and of autonomy) or a fear (of receiving a life-threatening diagnosis, of permanent incapacity or disability, of early retirement or of death). An additional explanation mentioned across groups was the competing priorities of daily living and putting others above self “it’s hard to take time for yourself when you have a lot of obligations.” (Marc) Stressing about the lack of time and being busy is used to positively explain and justify the treatment-seeking delay behaviour. This type of avoidance behaviour in regard to seeking help was often perceived as being somewhat of a responsible and altruistic behaviour, thus making it more acceptable and meaningful and reinforcing the masculine gender role and its impact on engaging in help-seeking and treatment-seeking.

“What am I doing here? What’d be my life once I’m back home?”: the in-hospital journey

The hospital stay, whose length varied according to the severity of the cardiac event, was most often described as very difficult, involving sleepless nights, worries, fear of death and sometimes anger. Having to “stay in bed” was depicted as a failure, a loss of power and confidence, or an unfair situation. “It changed my life totally. Like, you know, I was pretty confident, pretty, you know, I was a supervisor at my work, captain of my team, just, you know, that 10 feet tall and bulletproof. I wasn’t there anymore, right?” (Jacques) While reactions varied, one particular question transcended across groups: “what would be my life once at home?” The anxiety generated by this question was discussed in groups as an important concern.

Across groups, men typically shared that they were very satisfied with the care they received (ie, procedures, medications, interactions with healthcare professionals about their cardiac condition) during their hospital stay, but that one thing they tended to avoid discussing openly was their apprehension about life after hospitalisation. Thus, uncertainty about life after hospitalisation emerged as a dominant theme across groups when discussing in-hospital challenges. In-hospital uncertainty was further characterised by lack of, or inability to achieve, a clear understanding about the cardiac event, its impact on the body and daily functioning, eventual impact on one’s job or employability and risks in terms of survival (fear of death). The main reasons why men experienced anxiety in the form of uncertainty about the future were that they (a) did not understand, or accept, the cardiac event; (b) did not feel in control of their future (how things are going to evolve?); (c) were intimidated by unintelligible medical terminology and high-tech procedures and (d) apprehended the adjustments and the changes to be implemented once at home. Uncertainty about the future was associated with lack of self-confidence and was exacerbated by poor health communication on the part of professionals and in some cases the patients themselves, who were often reticent to share their concerns or to ask questions. Communication behaviours on the part of healthcare providers such as speaking in general terms and referring to population statistics (as opposed to using more precise and personalised information), only communicating via short conversations in a shared room while patients are in bed (as opposed to creating opportunities for asking questions in a more confidential environment), or providing unclear explanations using medical jargon (as opposed to clear explanations in lay terms), appear to play a critical role in generating and exacerbating feelings of uncertainty and apprehension about the future.

“I’m not the man I used to be!”: posthospital discharge

Returning home following a cardiac event was discussed as an important transitioning phase. Group discussions revealed that being told to ‘slow down and stay home’, even for a short period, was often experienced as unacceptable and devaluing. Posthospital discharge, especially in the early going, was associated with psychological distress, frustration and discomfort related to adopting the recommended lifestyle changes (eg, lower sodium intake, eating more fruits and vegetables, quitting smoking), resting at home and daily medication intake. Lack of understanding of medical advice and recommendations, lack of preparedness for the changes to be implemented and the experience of having had a ‘brush with death’ were mentioned as major stressors.

“You know, the thing that stuck in my mind the most, of this whole episode… I talked to the surgeon before the operation, and he went through all the steps of what’s happening, and bottom line, there’s a 2% chance that you’re gonna die… That gets your attention” (Henry) “Like, this male keeps saying ‘If it’s your time to go, it’s your time to go’ But for me, I’m not saying that I’m more or less important, but I have a young kid, so when your doctor tells you that you better make sure that your will is fully done and your financial situation is good cause you’re a ticking time bomb, at 40, I have a young kid and for me, it plays a lot in my head, right”. (George) “What I found the hardest of all is before my operation and after, they told me what I could do, what I couldn’t” (Virgile)

Perceived control was identified as a dynamic cognitive process that fluctuated in response to the cardiac event. Men constantly attempted to retain or gain control during the rehabilitation phase and even beyond this period. Changes in environmental circumstances, such as being hospitalised for extended periods of time, re-hospitalisation for complications and then being discharged home, impinged directly on their ability to feel in control of their daily lives. The process of gaining a better sense of control was facilitated by rationalising, or making sense of a new phase in their treatment or illness prognosis or by gaining awareness of environmental challenges “once you accept that you are restricted in your physical abilities it gets easier”. (Paul)

The posthospital discharge and recovery process experiences are mainly shaped by age, social connectedness (life
partner, family, friends and community involvement), psychological preparedness, personality and economic status (finances, employment, etc). Groups’ narratives revealed that feelings of powerlessness and sleep disturbances were experienced at all stages of the rehabilitation process and were often associated with the fear of dying.

“I was afraid for a long time to go to sleep. I would stay up for like 3 days until somebody slept with me more or less, right? My girlfriend at the time, we didn’t stay together every night, but if she wasn’t with me, I wouldn’t sleep. I was afraid to go to sleep and not wake up” (Albert)

**Distancing, normalising and accepting**

Men reported that stepping back and reflecting on their own emotional reactions and experiences helped them make sense of their changing lives postcardiac event. Two perspectives emerged: experiencing it as a personal failure and/or as an opportunity (a second chance for a better life). In both perspectives, they were ready to accept this new normality and were ready for adjustment.

“Once you accept that you are restricted in your physical abilities it gets easier.” (Bernard) They reported using various strategies (spirituality, religion, faith, praying, introspection, meditation) as means to help them make sense of their cardiac event and accept the situation “Well, I wouldn’t say I was completely free of worry for myself. Like the day before surgery, I went up to Sainte-Anne-De-Beaupré and I went to confession. So I was, you know. I wasn’t completely fearless, going in”. (Paul) “Well you know there’s a lot of factors that impact on getting better support, prayer… I think prayer is a big thing, faith is a big thing too, you need to go for help”.” (Jack) ‘Spirituality helps, it gives you strengths and courage. I think it’s a psychological thing’. (Marc)

Increased awareness of one’s mortality was described as a motivating factor to help them prioritise taking charge of their health. Redefining priorities with their life partner and family, or engaging in companionship was also described as helpful: “My wife as well was very helpful, which means, she was not entirely too sympathetic which is, this is what you need to do, you know (laughs)”. (Patrick) “Like she took care of all my meds. Prior to the surgery, she wouldn’t even know what meds I was on. But after that, she was the one who knew what med, and when there were changes”. (Albert)

After being stabilised medically, reactions varied among men. Groups discussed three main reactions: (a) processing and reflecting on the lived experience and engaging in adopting a healthy lifestyle as a personal or family challenge, (b) taking the necessary time to process the traumatic event (to absorb the shock and understand what was happening) and then gradually exploring options and implementing changes and (c) resisting and ignoring recommendations, using self-reliance and continuing the same lifestyle as before the cardiac event. “I disregarded anything that my doctors were telling me, and I said that I had to take control of my own situation”. (Charles)

**Conformity to traditional masculine norms**

Dominant masculine norms can affect perceptions, acceptance and normalisation of the psychological distress following a cardiac event as well as help-seeking behaviours and mental health services utilisation. “Broken masculinity” emerged as a transversal theme illustrating how deeply “masculinity and virility” were affected following a cardiac event. The functional limitations (ie, staying at home, not driving, not shovelling snow, not lifting heavy weights), prescribed by their doctor or that were consequences of their heart condition and related medication (ie, erectile dysfunction), were experienced as a major loss of manhood “Well, weakness also. There’s a role. You’re the father, and there’s a role. And there’s responsibilities that go with that role. And you want to continue to do your job, as a father. And you don’t want to show them that you’re as vulnerable as you are at the moment. You kind of try to carry through. Which is tiring, cause then when they’re gone, you’re just wiped out. You just put everything. You put the whole day’s energy into that session with them”. (Jean-Pierre) Perceiving their social role as “family breadwinner” or “family strong pillar” prevented men from sharing their emotions and worries to their children or relatives. The altruistic behaviours, such as protecting relatives from worries, are valued by men and are used as intrinsic strategies to regain self-confidence and sense of manhood. “Well, I have a 14 year old son, who looks up to me I’m sure. I’m his father. So, you know, sometimes when I’d see him, surely, I’d say after the surgery when you’re really not feeling yourself… You have to put on a game face because you really don’t want to show exactly how you feel to your children, cause they’re going to worry”. (Brian)

The tendency to view and label certain behaviours as “feminine” as opposed to “masculine” seems to be an aggravating factor in terms of delaying or avoiding seeking help and using mental health services “…women will tend much more to talk about it to their friends in regards to how they’re feeling. Where a man, sometimes it’s hard to share with your partner sometimes. You don’t want to show that sign of weakness, and that’s the way that I look at it”. (Bill) “Suddenly you go through a heart attack and you will be like that (clic) the man they expect you to be, I mean the open minded… the touchy feel… you know… talking about private things… with people you don’t know, Oh wow! Not me…” (Greg) “I find that women will talk to each other about emotions and how they feel. But how often do you go to work and sit down with one of your friends and start talking about your emotional problems? Not often. It’s just something that men don’t do”. (Alban)

Men working in male-dominated workplaces (ie, paramedics, police, military, construction, fishery industry) stressed the importance of educating people in their workplaces and of providing them with supportive tools and strategies. “The other thing too is like, in the military, I was trained for 32 years to be macho. There’s no such thing as being depressed or tired or… you know what I mean? You’d
just go out and do your thing, that’s just the way it was. And that training, today, is still instilled in me”. (Martin)

Social, literacy and communication challenges

Following a cardiac event, men felt they had to change certain patterns within their lives and adjust to changes in their role as life partners, parents and employees. There was a perception of loss of confidence in their physical capabilities and functioning in family and work relationships. Low social connectedness and support before the cardiac event was discussed in groups as a risk factor for cardiac disease and mental illness and as associated with poor mental functioning and quality of life during the recovery period. The quality and the intensity of family relationships as well as those with friends and co-workers varied over the course of recovery postcardiac event and were dependant on men’s acceptance of the situation and their need for help. When discussing social support and its relevance for a healthy recovery, the necessary balance between expected and received support emerged as key. Indeed, while they found it sometimes difficult to share their thoughts and challenges with their relatives, men appreciated the attention, the compassion, the understanding and the support of their life partner, family members and friends. Supportive interpersonal relationships were viewed as helpful for breaking the cycle of distress and anxiety. The support received improved men’s trust in their ability to deal with the cardiac event, the cardiac rehabilitation and the necessary adjustments. However, men mentioned sometimes being irritated because of the overprotectiveness of some relatives. In particular, being under ‘spouse’s management’, they felt that they had lost part of their personal space, their independence and manhood. “...All of a sudden, people feel, my wife in particular, well, here’s somebody who’s not an invalid, but we have to, you know, every time you do anything it’s well, you shouldn’t be doing this, you shouldn’t be doing that, you shouldn’t be... And that sort of affected me—it still does—more than any other things...” (Mark)

Sexual problems developed in the aftermath of the cardiac event, either functional ones related to their ability to sustain an erection or to ejaculate (often side effects of medications), or psychological ones that involved fears of exacerbating their heart condition if they were to engage in sexual activity, were described as a major concern. “Sexually, I’m not the man I used to be. It’s just—and I blame it on the pills—it’s just that my life has changed drastically...I keep toying with the idea that maybe I should stop taking the pills, but I know that it’s gonna get me one way or the other... So... it’s really finding a sweet spot with the right medication”. (Wayne) “you don’t have anymore the sexual drive, you know, that you had before”. (Martin)

Concerns about work

As work is a significant aspect of personal and social identity, being on a long-term sick leave may lead to feelings of shame and guilt or regarding oneself as incompetent, incapable or physically weak. “I’ve been out of work for a year and a half. I don’t want to go back there. I don’t want the stress of it. In the meantime, my work’s moving, so we’re all going to lose our jobs anyways. I’ve been there 22 years. So it’s just another stressor, right? And a lot of stuff outside of work, and it’s a helpless feeling.” (Paul) “I supervised the Giant Tiger warehouse. I couldn’t do that anymore. You know what I mean? Stuff like that, you know? The only thing I do anymore is play baseball. That’s just it...” (Richard) Early returning to work, even against medical advice, is discussed as a problem-solving strategy to reinforce self-confidence and overcome stress. “The cardiologist came, he says, “well, we have to do a triple bypass”. I looked at him, I said, “well, how long am gonna have to stay in the hospital?”. He said, “2 weeks”. I said, “I don’t have time for that. I have to be back at work for the 29th’ (Serge) ‘after my heart attack, the only thing I wanted to do was get better so I could go back to work, ‘cause I’m only 52 and I need to work. So, that’s all about”. (Georges)

Health literacy, health communication and health services navigation

Men’s health literacy was pointed out as a major challenge. The lack of understanding medical jargon and procedures emerged as an additional stressor and was described as a barrier for asking questions and seeking more information, explanations or advice. The bidirectional association between cardiac health and mental health was unclear and not fully understood. Moreover, mental illness signs, symptoms and diagnostic labels seem to interfere with the masculine ideals. Indeed, men did not identify themselves as ‘depressed’, ‘stressed’ or ‘anxious’ but used restrictive vocabulary to express emotional distress like ‘low energy’, ‘challenged’ or ‘meeting temporary difficulties’. Men valued the quality and human kindness associated with healthcare providers they had access to and described how the interactions, the conversations and the alliance they had with them enhanced their compliance with treatment plans and improved their general mental and physical health status. “...They gave me all the paperwork, all the stress things, charts and stuff, and my GP was great. She would ask me how my mental state was. I don’t know guys like that. I appreciate it, but my doctors know her when I go in her office. She’s in no hurry. If I’m sitting there crying for 15 min, she’s there for 20 with me. So, yeah, I’m very lucky. I have great doctors...” (Serge)

Men put a strong emphasis on the quality of communication they had with healthcare professionals, such as being listened to, not being rushed, receiving care with sympathetic attitude, being trusted and taken seriously “I feel comfort. I feel comforted going to them. I really get a sense from my doctors that they really care about me”. (William)

However, the lack of time allocated by physicians to address emotional distress and social challenges following a cardiac event was reported as a barrier for access to supportive and caring services: “You look at the
doctor as being event-centred. In other words, he’s there for a medical purpose. You have your 10 or your 15 min, and you’re gone. You know, we’re talking today about emotions, and this seems to be a time-consuming expensive exercise that at least the professionals I’ve dealt with haven’t been available for. And you feel as though you’re intruding on their importance, I guess, by, you know, having long chats and that sort of thing.” (Patrick) Men felt pressured by time: “I just felt like I was just in and out like I was at a hair salon or something. You know, get this done, get the ECG done, and okay, see you later. Here’s a prescription... I always felt like I was being rushed and brushed off. And so there was no relationship.” (Mike) “You know, you’ve got your so many minutes. And I still think in our health system—and maybe not what’s in the future—but if there was some minor pay for service, I think that would be helpful because you always feel you’re on a sort of a diet of service. You’re in; you’re out, and of necessity. They move on to the next person.” (Bruce)

The lack of knowledge about the health system and how to navigate services and manage medical information appeared to lead to the perception of the healthcare system as a “men-unfriendly space” where they feel discomfort and uncertainty: “I think there’s a problem with men as a whole, and you know, women seem so much more in tune with, you know, going to see the doctor for themselves, child birth, kids, I mean, when my son was ill, I never went to the doctor with him, my wife took him and it just wasn’t a place I’d go; didn’t know him very well, didn’t know much about what to tell him”. (Philip)

Moreover, the perceived conflicting information received from different healthcare professionals increased anxiety and stress about how to manage health conditions and how to use health services. Men participating in cardiac rehabilitation programme reported the benefits of social interaction with other cardiac patients, identified as the “cardiac family”. Sharing a similar health condition helps to normalise the challenges and accepting the “new reality”.

DISCUSSION

This study aimed to describe the emotional issues and understand the patterns of psychosocial adjustment experienced by men following a cardiac event. Across the three Canadian provinces, participants showed homogeneity in reported experiences of the cardiac event, and its subsequent psychological reaction and social impact. Adaptation to the event, both psychologically and socially, did not appear to relate to geographical location but rather to intra-individual differences and differences (i.e., cultural norms, beliefs, relationship). In the focus groups men opened up readily about their emotions and their vulnerabilities. They shared their experiences and difficulties in adapting and adjusting to their “new postcardiac identity” as well as the need to accept new roles. They acknowledged that this adjustment needed to be worked out with their environment, their home, their family, their friends and their workplace. Most often they found support through their partners and through peer support when they attended cardiac rehabilitation sessions. The focus group sessions helped to validate and normalise their initial reactions. They regretted that the healthcare professionals they had encountered had not enquired in a systematic way about their mental well-being as they would about their physical symptoms or diet or exercise. This is certainly on aspect of practice that would be pertinent for healthcare professionals to change.

One important overarching element that was brought forth by men was the lack of systematic attention given by healthcare professionals to the psychological consequences of having experienced a cardiac event. It was suggested that some professionals may bring up the subject, but in most instances, the question was not asked. Therefore, there seems to be a lack of consistency within the health system in regard to the attention paid to the psychological sequelae of heart disease. These aspects were reported in previous studies on various health conditions. However, there is still a lack of clear and evidence-based guidelines and resources to support men-sensitive health communication as well as clinical practices to foster men’s mental health. This study also revealed how traditional masculine norms can affect the way men experience and seek help for emotional distress following a cardiac event, and how these behaviours affect their health and well-being. Tailoring and targeting clinical interventions may increase men’s service uptake and the efficacy of treatments. Specific factors associated with men’s access to, and engagement with mental healthcare are critical to increasing help-seeking, treatment uptake and effectual self-management among men experiencing emotional distress following a cardiac event.

While the literature contains extensive reports on ‘toxic masculinity’ as a major determinant of men’s health, its impact on help-seeking in men, our study revealed ‘broken masculinity’ to be an untold and unrecognised distress following a cardiac event. We found that men experienced a great deal of psychological anguish over the changes imposed by their cardiac illness, and that these changes were directly related to their sense of themselves as men in their family and in society. Our results confirm, as suggested by previous research, that it will be crucial to address these concerns in a systematic way in order to combat symptoms of depression, anxiety and PTSD in men following a cardiac event.

Our results corroborate and extend what other researchers have found concerning the psychological impact of a cardiac event. The sense of uncertainty, stress, discouragement and sometimes hopelessness that many men in our sample talked about as they struggled to come to terms with heart disease and its effects on their personal and professional lives is consistent with the elevated levels of depression, anxiety and PTSD reported among men (and women) elsewhere in the literature. This sense of ‘broken masculinity’ might be dangerous because it reflects, among other things, an espousal of attitudes and values that emphasise self-sufficiency and strength to
such a degree that men refrain from addressing concerns related to their physical and mental health. Indeed, the results of previous studies\(^8\)\(^9\)\(^10\) have indicated that traditional attitudes of this nature are related to poorer health outcomes in men than in women.

The lack of readily accessible and understandable information on the mental health aspects of heart disease that we noted in this study, along with the emotional, professional, and interpersonal challenges that men discussed, suggest that healthcare providers need to be better informed not only of the psychological consequences of heart disease but also of gender-specific ways of coping with them. Although there are examples of some initiatives that move in this direction (eg, the Atlantic Cardiac Rehabilitation Network of Ontario, the Atlantic Cardiac Rehabilitation Network), to our knowledge there is not yet a comprehensive strategy for addressing themes like ‘broken masculinity’ in male cardiac patients. For this reason, it is imperative to develop and implement interventions that will take into account the psychological impact of heart disease on men’s sense of self, their relationships and their work, along with the importance of adopting more flexible attitudes about what it means to be a man (ie, a strong man asks for help when he needs it; a strong man takes care of himself and of others).

Limitations
The participants in this study were mostly in their 60s and over, which is representative of the population of men with cardiac disease. However, it would be of interest to study more specifically cardiac disease in men in their 30s, 40s or 50s as cardiac disease is becoming more prevalent in these men.

The participants in our study were essentially white, with little or no representation of other ethnic groups or indigenous people. This may not be representative of larger urban Canadian settings.

Although our inclusion criteria indicated a cardiac event in the last 5 years, for some participants, the first event may have occurred some 10 years prior and there may have been changes in cardiac rehabilitation programme and health services. Moreover, the responsiveness of healthcare professionals at the time may have been different. A quantitative study exploring these aspects may allow to retrieve accurate information.

Strengths
This study is the first of its kind to delve into the subjective experience of men with heart disease and to examine the link between their reactions to their cardiac event and their mental health. We were able to detect key themes that are likely to resonate with most men who have heart disease, which could serve as a foundation for the development of intervention programme, that is, the stepped-care model.

CONCLUSION
This paper highlights the significant emotions that arise following a cardiac event and how men attempt to counter them as best as they can. It is known that men have a tendency not to talk about their emotions or to express them differently than women do. Healthcare professionals caring for men in these contexts must be aware of this and receive training in gender-sensitive approaches. It will be important to systematically inform their patients of the possible occurrence of such emotions as well as the tools and resources to self-manage as a first step. Considering the impact on morbidity and mortality when anxiety, depression or PTSD are in the diagnostic picture, cardiologists, cardiac surgeons and family physicians as well as psychologists and other healthcare professionals involved in cardiac rehabilitation programme must be ready to systematically inquire and to screen their patients for common mental health conditions. Improved mental health of these patients will most likely improve their cardiac disease. A larger study is underway to longitudinally investigate the need for emotional support among men following a cardiac event as well as exploring acceptability and feasibility of men-sensitive stepped-care models.

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