ORIGINAL RESEARCH

Being in suspense: women’s experiences awaiting breast cancer surgery

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Abstract

Aim. This article is a report of a qualitative study of women’s experiences after having received a breast cancer diagnosis and awaiting primary surgery.

Background. Breast cancer is experienced as an important stressor and a major challenge. How women appraise the diagnosis affects their postsurgery adaptation. Although studies have documented the presurgery period as stressful, in-depth understanding of women’s experiences while awaiting surgery studied during this stressful period is still needed.

Method. Twenty-one women with newly diagnosed breast cancer were interviewed individually the day before surgery at a Norwegian university hospital, between February 2006 and February 2007. Interviews were analysed using the qualitative meaning condensation method.

Findings. Feeling healthy, but having to adapt to disease, waiting, uncertainty, having to tell and existential awareness were themes identified. Having to wait was experienced as frightening, painful, long and difficult – but also necessary. Some expressed apprehension because they could not do anything about their situation. Others emphasized that it was good to have some time between diagnosis and surgery to become personally prepared and spend time with loved ones. Informing others about the diagnosis was a great burden for most of them. Social networks could both give and crave support.

Conclusion. Healthcare professionals need to be sensitive to the individual experiences of women awaiting breast cancer surgery to give support to ease their situation. Setting the date for surgery will alleviate anxiety. Follow-up studies about the potential impact of presurgery experiences on later experiences of living with breast cancer and intervention studies are needed.

Keywords: breast cancer, diagnosis, nursing, qualitative interviews, uncertainty, waiting for surgery

Introduction

Breast cancer is the most common cause of cancer death among women worldwide (World Health Organization 2009). One in ten Norwegian women develops breast cancer during her lifetime (Cancer in Norway 2008). Being diagnosed with breast cancer is experienced as an important stressor cross-culturally. It is perceived as a life-threatening illness associated with suffering, pain and death (Perreault & Bourbonnais 2005, Fu et al. 2008, Taleghani et al. 2008) and...

Background

According to several studies, receiving the diagnosis of breast cancer is a traumatic experience (Cordova et al. 2007, Mehnert & Koch 2007), and may cause various emotional reactions (Bertero & Chamberlain Wilmoth 2007, Shaha et al. 2008, Al-Azri et al. 2009), mostly anxiety and depression (Montazeri 2008). The prevalence of anxiety and depression at the time of diagnosis is reported to be significantly related to anxiety (Burgess et al. 2005) and depression (Den Oudsten et al. 2009), or both (Burgess et al. 2005, Vahdaninia et al. 2010), 12–18 months after diagnosis, and is even common several years after diagnosis and treatment (Lueboonthavatchai 2007, Montazeri 2008). Some women are reported to have posttraumatic stress disorder symptoms, some even long after treatment (Kornblith et al. 2003, Mehnert & Koch 2008).

Several studies report that waiting for health care (Fogarty & Cronin 2008) and preoperative waiting for breast cancer surgery (Oudhoff et al. 2004, Schnur et al. 2008) are stressful, with the highest level of distress the day before surgery (Ryburn 2003). However, uncertainty remains one of the major stressors that influence women’s experiences during the breast cancer trajectory (Shaha et al. 2008). They suffer different kinds of uncertainty: before diagnosis (Demir et al. 2008, Liao et al. 2008, Montgomery 2010), before surgery (Montgomery & Bovbjerg 2004, Schnur et al. 2008, Drageset et al. 2010), and concerning the future after surgery (Wade et al. 2005, Doumit et al. 2010). Many patients are afraid of the disease’s recurrence and have to live with ‘uncertain certainty’ (Bertero & Chamberlain Wilmoth 2007). Limited knowledge about cancer and its treatment, and poor understanding of information from the hospital, add to the patients’ uncertainty (Gaudine et al. 2003, Saares & Suominen 2005, Shaha et al. 2008), along with existential concerns (Landmark et al. 2001, Logan et al. 2006, Bertero & Chamberlain Wilmoth 2007). Anxiety increases in situations of uncertainty and existential threat (Giske et al. 2009, Remmers et al. 2010).

Uncertainty, stress and anxiety are paramount during diagnosis and treatment of breast cancer (Shaha et al. 2008, Vahdaninia et al. 2010), and even affect long-term adaptation (Montazeri 2008). To our knowledge, most qualitative studies on presurgery experiences of breast cancer have been conducted postsurgery and, retrospectively. Quantitative studies, however, have focused on selected aspects of the experiences rather than on the total experience as subjectively expressed by the women, as qualitative studies can do. Therefore, in-depth understanding of these women’s experiences is still needed, with data collected, during this particularly stressful period when the stress level peaks (Ryburn 2003).

The Study

Aim

The aim of the study was to describe the women’s experiences after having received a breast cancer diagnosis and awaiting primary surgery.

Design

A qualitative descriptive design was used.

Participants

Using convenience sampling, 21 women with newly diagnosed breast cancer were recruited from a day-surgery unit at a Norwegian university hospital. The participants received the invitation to participate together with the information about surgery. The selection criteria were: scheduled for primary surgery, i.e. lumpectomy or mastectomy, over 18 years of age, and able to speak and write Norwegian. All were ethnic Norwegian, with similar culture, and came from the same geographic area. The sample size was determined by data saturation – the point at which no new information is obtained and redundancy is achieved (Polit & Beck 2008, p. 357). Since no new essential information was forthcoming after the 20th interview, we decided that the saturation point had been reached. Data collection was therefore discontinued after the 21st interview. The participants received their cancer diagnosis after core needle biopsy. They had no information about the type of breast cancer, stage of disease, or final treatment plans. This information was received about 3 weeks postsurgery.

Data collection

Data were collected from February 2006 to February 2007. The interviews were conducted in the hospital on the day before surgery, and before preoperative information was given. The interviews lasted from 50 to 120 minutes. A semi-structured interview guide was developed based on our previous research (Drageset & Lindstrom 2003, 2005) and
focused on the women’s experiences, i.e. ‘How did you experience receiving the diagnosis?’ ‘How have you experienced this period before surgery?’ During the interviews themes mentioned by the women were probed. The interviewer’s impression of atmosphere and non-verbal communication were noted shortly after each interview.

Ethical considerations
The study was approved by the Regional Ethical Board. All participants were given oral and written project information, and gave their written informed consent. The women’s needs for emotional protection were respected by not dwelling too deeply on threatening issues, thereby taking into consideration that the day before surgery was extra stressful. The outpatient clinic offered a special follow-up consultation with professionals if needed. None requested it. Contrastingly, most participants reported that the interview had been beneficial for them. Since the interviews took place on days when the women had to come to the hospital anyway, they were not burdened by an extra visit.

Data analysis
Interviews were analysed in three steps using the method of qualitative meaning condensation (Kvale 2006). Three levels were used: self-understanding, common-sense understanding and theoretical understanding. At the first level, the transcribed interviews were read to acquire a sense of the whole. The meaning units were identified, and data condensed. Self-understanding emerged as the researchers condensed the women’s personal statements according to the researchers’ understanding. At the second level, transcriptions were read several times to achieve a common-sense understanding, providing a broader context of comprehension. The different themes were identified and transformed into meaningful units, then coded into major themes. The third level, theoretical understanding, implied uncovering a deeper meaning, where the mutual relationships between the whole and the parts became clearer. These themes were discussed in the light of earlier research and Mishel’s nursing theory of ‘Uncertainty in illness’ (Mishel 1988, 1990, Bailey & Stewart 2006). The qualitative data-analysis software QRS-NVivo 7 (http://www.qrsinternational.com) was used.

Rigour
Trustworthiness was established using the guidelines by Kvale (2006). The criteria of credibility and dependability were applied. The interviews were conducted, audio-taped and transcribed verbatim by the first author. The authors analysed data independently, and findings were discussed by all authors throughout the analysis process to reach agreement. Memos were written during the analysis to ensure that ideas and reflections were not lost.

Findings
The 21 women’s mean age was 54, ranging from 41 to 73. Sixteen women were married or cohabiting, one single, one widowed, and three divorced. Seventeen had children. Seven-teen lived with another person (spouse/partner/children). Nineteen were employed, and two had retired. Five women had completed lower secondary school education, nine upper secondary, six had attended university colleges and one had a university degree.

Five themes were identified: feeling healthy but having to adapt to disease, waiting, uncertainty, having to tell and existential awareness.

Feeling healthy but having to adapt to disease
The diagnosis felt unreal for most of the women. They described the experience as earth-shattering and mentioned feelings of stress, crisis, paralysis and chaos. They described a surreal feeling that their world had changed quickly and dramatically. One said: ‘It felt so unreal to me. I felt as if it was somehow outside me’. The women were feeling physically well, but had learned that they had a potentially serious disease. They spent a lot of time pondering whether they were healthy or ill: ‘I’ve understood that with this disease you are well and sick at the same time. That’s why things are a bit difficult, such as relating to it and understanding it fully’. For most of them the diagnosis was frightening and difficult to understand and accept, because the majority did not notice any lump, pain, or other symptoms. ‘It’s frightening to be healthy one day and ill the next. I didn’t notice the lump. I thought you’d feel ill when you got cancer’. Another said: ‘If I’d felt ill, perhaps I could have accepted my illness’.

Waiting
The waiting time between diagnosis and surgery varied from 1 to 3 weeks. The length of time that elapsed from diagnosis to surgery influenced the emotional reactions. Those with considerably death anxiety seemed to react more negatively to the waiting period. Some had lived as normal. One said that the waiting time had passed too fast to comprehend it fully. For most women the waiting period was experienced as
frightening, hopeless, long and hard to endure. They wanted to have the surgery done quickly and get on with their life:

Every morning I wake up and think ‘I have cancer’. You have to wait. It’s a terribly hopeless feeling. You are in a catastrophe. I’m terribly scared! That has created a great vacuum for me.

To endure the waiting time triggered emotional reactions of different character and intensity. Some suffered quite severe anxiety attacks: ‘My cheeks turn red, my pulse rises, it’s hard to breathe. I feel there’s a shield over my body’. Another said: ‘I’m in chaos. It’s torture to wait’. Many described how emotions came in waves. They had no control over their feelings, which swamped them when they were least prepared. Several experienced disrupted sleep that impaired their functioning during the day. One could not bring herself to touch the lump, while others were afraid that the cancer spread and grew during the waiting-period.

Despite having been informed that they had to wait for the date of surgery to be set, one was afraid of being forgotten and called the hospital to ensure she was on the waiting list. All women had been told they could call the hospital any time. However, some were afraid of disturbing the health professionals, while others were afraid to call somebody they had never met: ‘You get a diagnosis and feel it very difficult and then you have to call somebody you haven’t seen’. Getting the date of surgery alleviated fear and anxiety and gave a sense of security and control: ‘I felt I had much more control, because I could say: I’m having surgery’. Another said: ‘When I got the date, I felt calmer. That helped me greatly. It was much easier once I knew!’ Another said: ‘Somebody else is involved in my cancer’.

Some of the women said that a certain time was necessary to build themselves up to be prepared for what they were to go through. They found different ways to prepare themselves both psychologically and physically:

It’s been good to have some time before the surgery. I feel rested, strengthened, and I’ve been outdoors walking a lot. One needs a week; otherwise it would be too fast. I wouldn’t have been ready.

Another said:

It has been good for me to have gone through this, to accept that I have cancer and must have a breast removed, to talk to those I love and to rest my body.

Uncertainty

Uncertainty was related to three situations: the future, surgery and losing the breast. How their breast cancer would influence their future was essential for almost all. Considering the future provoked feelings of uncertainty, fear and exhaustion: ‘The fear of how this is going is quite unique. I can’t get any answer. These feelings exhaust me’. One woman said that she could not endure imagining a future without being able to live fully. Others tried to reduce feelings of uncertainty by focusing on the present: ‘I want to manage things as they are today. If I have to be concerned about the future too, I won’t be at ease’. Another said: ‘I try to plan as if this does not exist’.

Many of them were nervous about what they would be told by the doctor in the preoperative meeting. Worries and uncertainty were connected to both the surgery itself and their postsurgery conditions: ‘I don’t know what I’ll have to go through, and how extensive it will be. I haven’t seen the doctor yet. Everything is in limbo’. Another said: ‘The worst thing of all is not knowing’. According to another: ‘I only want to know exactly what it is’. Most of the women thought about what kind of therapy would follow surgery, and how this would influence their lives: ‘I’m in suspense until I’m informed about what type of cancer I have and if I’ll need chemotherapy’. Despite having received written information about surgery and anaesthesia, the prospect of having an anaesthetic led to uncertainty and fear of losing control: ‘I’m very concerned about the anaesthetic; how will I react? It petrifies me’. Some were afraid of pain and postoperative nausea; others were concerned about the operation scar and afraid of being dependent on others for practical help after surgery. Others were not concerned, only eager to get it done. Standard preoperative diagnostic tests, such as radiography of the thorax, also created uncertainty: ‘Is it possible that I also have lung cancer?’ The greatest fear for practically all was to receive a message of metastasis: ‘The fear is greatest, perhaps, when I’m to be informed what’s going to happen next. What will the treatment be? Has it spread? It’s so frightening to think about’.

Some women were prepared for mastectomy and were offered reconstruction later, others for lumpectomy, but with a possible mastectomy later. To keep the breast was a relief, but also increased uncertainty: ‘Will all the cancer be removed?’ Reactions to mastectomy were very varied: for some it was acceptable, for others worrying, and for some terrifying. However, to get rid of the cancer was the overarching goal for all. In this perspective, the loss of a breast could be of minor importance:

I don’t mind losing a breast. I don’t connect identity and feelings to it. If the doctors had told me that my prognosis would be better by taking both breasts, they could!

Others found losing a breast terrifying: ‘I’m willing to fight to keep it! My greatest fear is to lose the breast’. The women
were concerned about disfigurement and reduced womanli-
ness. Their partners’ reactions were of importance:
You’ll be disfigured. You think of that especially when you have a
husband who thinks of such things. I worry about how my husband
and other people will look at me. Nevertheless, I hope that somebody
still loves me. It’s a bit difficult when you’re married.

Having to tell
Our participants considered their family and close friends to
be their best supporters. However, for most of them it was a
great burden to have to inform significant others about the
diagnosis. They struggled with the questions of what to tell,
and were afraid that the news of their cancer diagnosis would
scare friends and family: ‘My husband was more shocked
than I was. I dreaded telling him’. Some said that they were
guilty: ‘It was hard to tell my parents. I felt that I was
inflicting pain on them, that it was my fault that they were
sad and sleepless’. Another said: ‘I shrank from telling my
daughter, in particular. We are very close. I thought she
would have problems with her studies afterwards, and that
would be my fault’.

Practically all said that they had to be strong and composed
when informing others about their diagnosis: ‘I felt I had to
be strong because of my family: my children have always seen
their mother as a strong person’. According to another: ‘I feel
that I need to cry but I can’t break down and not support my
children’. Another said: ‘I had to forget myself: my children
were the ones who needed support’. How the news was
broken was important: ‘Since I didn’t react hysterically and
burst into tears, also those around me reacted calmly’. Some
did not inform all close family members: they wanted to
protect them. Others were ambivalent about telling the news
about their diagnosis: ‘I cringed at the prospect of telling
them, at the same time I had to do it’. Some of the women
came exhausted by constantly having to update others
about their situation. In some families, members were scared
and the women had to give encouragement and support when
informing: ‘The first thing I did was to call my daughters and
tell them. They started to cry. So I had to console them’.
According to another: ‘I try to tell and console simulta-
neously. It’s not good for my family and friends to hear about
it. I’m afraid of hurting them’.

Existential awareness
Most of the women expressed a new awareness of death. One
of them prepared to die by terminating her membership in
hobby organizations. Others said about their desperation and
death anxiety: ‘I felt that I wouldn’t live through this year’.
They were afraid of being separated from their family,
especially afraid of dying from their children and of not
seeing grand-children grow up.

In contrast, some were pondering about a possible ‘mean-
ing’ in getting cancer: ‘Since I got this message, I think there’s
a meaning. Perhaps I’ll learn to appreciate other things’.
Another said: ‘You live more intensely. That’s the positive
side’. Others experienced everyday life as becoming more
important. Learning to live in the moment was described:
‘I’m going to appreciate the good days more’. Materialistic
factors reduced their importance, and some became more
selective concerning whom they chose to spend their time
with. Others were convinced that their breast cancer expe-
rience would give them personal mental strength and
valuable life experiences: ‘I’ll come out of this as a wiser
person’. One compared her own situation to that of others
with cancer and serious health problems. These comparisons
gave a new meaning to their situation: ‘It isn’t a matter of
“poor me”. I have a friend who hasn’t got long left. That puts
matters into perspective’.

Discussion
Study limitations
The participants came from the same geographical area, with
similar ethnicity and culture. A more varied sample may have
yielded different results, and the most anxious patients may
have refused to participate.

Feeling healthy but having to adapt to disease
We found that most of the women had difficulties accepting
their diagnosis while feeling healthy. Our participants felt
their health status had changed overnight and that they had
become affected by an uncontrollable and unpredictable
disease. They experienced a sudden transition from a state of
wellness to a state of illness and disease (Boehmke &
lack of symptom patterns increases the ambiguity and
uncertainty about the illness-wellness state and the inability
to determine the meaning of illness-related events. Likewise,
our participants reported that their ambiguous situation was
difficult to comprehend and adapt to. Consistent with
previous studies (Landmark et al. 2001, Taleghani et al.
2008, Tobin & Begley 2008), our findings revealed that
receiving the diagnosis caused emotional reactions that can be
characterized as a psychological crisis. The women struggled
to absorb and accept what had happened. Negative unexpected life events create distress (Gurevich et al. 2002), which adversely affects psychological adjustment and highlights potential needs for psychosocial counselling and support (Mehnert & Koch 2008). Nurses are resources to assist patients in interpreting and structuring the meaning of illness—events (Mishel 1988), and to assist adaptation to life changes induced by an unexpected, negative life event (Roy 2009).

Waiting

Our findings revealed different emotional reactions such as anxiety, fear and suffering during the waiting time, characterized by intense uncertainty. Uncertainty is appraised as ‘danger’ in most cases related to serious diseases (Mishel 1988). Some of our participants clearly appraised the diagnosis as a threat, implying unknown but anticipated negative consequences for their identity. Others trusted surgery to alleviate their suffering, but found it hard to endure the indeterminate waiting time. Suffering due to breast cancer has been documented previously (Arman & Rehnsfeldt 2003, Perreault & Bourbonnais 2005). Suffering is defined as ‘an individualized, subjective and complex experience that involves the assignment of an intensely negative meaning to an event or a perceived threat’ (Rodgers & Cowles 1997, p. 1048), and is apparent when the most crucial aspects of personal integrity are threatened or lost (Roy 2009). According to Morse (2000), suffering must be ‘worked through’, which implies acknowledging and adapting to negative situations. Nurses may support the person through this experience, thus making the suffering more bearable.

Individuals who experience loss of control over their situation tend to exhibit more stress-related problems than those who believe they can influence their situation (Olff 1991, Mishel 1997, Lazarus 1999). Loss of control is mentioned by many patients with breast cancer (Sharpley & Christie 2007, Barez et al. 2009) and has been shown to create helplessness and depression (Seligman 1975). Trust and confidence in credible authorities and expertise decrease uncertainty according to Mishel and Braden (1988). Therefore, to be informed about the date of surgery as soon as possible was essential. It gave a sense of control and the reassurance of belonging to a healthcare system, thus alleviating the unbearable experiences of waiting. Despite being told they could call the hospital nurse for counselling, many women were unfortunately reluctant to use this service despite wanting to talk to somebody.

However, some positive experiences related to waiting were also identified in our study. The women claimed they got time to prepare themselves both physically and psychologically, and to accept the diagnosis gradually. A diagnosis can be shocking, affect cognitive capacity and temporarily reduce comprehension and information-processing (Mishel 1988), which is also a common response to the crisis of cancer (Holland & Gooen-Piels 2000). Acknowledging the diagnosis required time. The importance of time before surgery to become emotionally prepared was also reported by Landmark et al. (2008), finding that this time prevented strong negative reactions following surgery.

Uncertainty

According to Mishel (1988), lack of information and unpredictability of disease increases uncertainty. Similarly, our participants’ need for knowledge and the unpredictability of their cancer and treatment increased their fear and uncertainty. As reported previously (Taleghani et al. 2006, Wonghongkul et al. 2006, Al-Azri et al. 2009), women with breast cancer use different coping strategies to endure uncertainty. Morse (2000) claimed that people who are enduring adversity focus on the present, as our findings also revealed. Focusing on the present enabled most of the women to ‘keep going’, thus alleviating fear and anxiety. Women with breast cancer have also reported strong needs for cancer-related information (Liao et al. 2007, Landmark et al. 2008, Lally 2009) which reduces uncertainty (Loiselle et al. 2006). Healthcare providers are credible resources to reduce uncertainty by providing medical-related information (Mishel 1997, Mishel et al. 2005). Contrastingly, our findings revealed that some general information was welcome, but too detailed information was threatening. What most of the women wanted was information on their own actual status in the disease process. Unfortunately, at this point of time this information was impossible to obtain.

Anxiety is almost universal in preoperative patients (Pritchard 2009). Our findings also revealed that thoughts about both anaesthesia and surgery itself caused fear, anxiety and loss of control. Preoperative routines and procedures seemed ominous because what they implied was unclear. Giving individual information about procedures as part of preparing patients for surgery may improve patients’ sense of control (Hawighorst-Knapstein et al. 2006, Schmid-Buchi et al. 2008) and reduce uncertainty and unfamiliarity about treatment and the healthcare system (Mishel & Braden 1988). Our participants’ greatest fear was connected to the postsurgery information: all feared the possibility of metastases. This finding confirms conclusions by Montgomery et al. (2003) and Schnur et al. (2008) who also found that worry about the outcome of surgery was more stressful than
aspects of the surgery itself. Our participants were also concerned that the operation and treatment would affect their total physical condition and the time needed to return to everyday life.

Our participants had differing attitudes to losing a breast. Consistent with previous studies (Landmark & Wahl 2002, Taleghani et al. 2008), all the women regarded losing the breast as less important if it reduced the risk of dying of breast cancer. However, the main concern for some participants was the anticipated changes in their appearance. Breasts are considered as a symbol of femininity, womanhood, sexuality and self-concept (Yankaskas et al. 2005, Demir et al. 2008, Helms et al. 2008). Changes in appearance have been reported as the main concern, primarily for young women (Avis et al. 2004, 2005), but in our study this was also a major concern for some of the older women. Furthermore, our findings revealed uncertainty about the effect on the opposite sex. Some of our participants connected their breast to their female identity and were afraid of feeling less worth than women with two breasts. The partner’s reassurance was important. It was essential to know that they would still be valued and loved as a woman.

Having to tell

Having to tell significant others about their diagnosis was a major burden for most of our participants. Some kept their diagnosis to themselves to prevent significant others’ distress.

Other studies also report that women feel uncertain about communication with close persons about their diagnosis (Fu et al. 2008, Remmers et al. 2010). Furthermore, it was remarkable how our participants tried to lighten the burden on their family by choosing their words carefully and by being strong, which implied depriving themselves of expressing their own reactions. Expressing emotions can be associated with decreased distress (Iwamitsu et al. 2005). But because emotions reinforce themselves (LeDoux 1996), holding back and controlling emotions can also reduce distress (Bonanno et al. 1999, Drageset et al. 2010). Our participants gave priority to their family members’ emotional needs. This may either have imposed a burden of self-control, or protected them from being overwhelmed.

That women with breast cancer have concerns about their children, primarily younger children, has been reported in several studies (Billhult & Segesten 2003, Semple & McCance 2010). Our findings yielded similar results, although these children were adolescents or adults. The women seemed to be torn between their own and their children’s needs for care. Therefore, some chose to suppress their own concerns and needs and put the needs of the children in focus, trying to maintain their role as a good mother in a normal family life. It is possible that this composed attitude may also have benefited the women (Taleghani et al. 2008).

Social interaction may help by giving both information and emotional support (Mishel & Braden 1988, Gagliardi et al. 2009, Liao et al. 2010) as our findings confirmed. The presence of social networks does not always have positive effects (Drageset & Lindstrom 2003, Cordova et al. 2007). It may be a source of distress (Parrish & Adams 2003), as our findings also revealed. Paradoxically, the women took on the role of comforter towards their family, instead of being comforted. Most even increased their own distress by feeling guilty for imposing distress on others. Therefore, their presumed-to-be social supporters were not experienced unequivocally as resources.

Existential awareness

Death anxiety was clearly apparent among our participants. Their existence, values and basic needs for meaning and purposefulness were threatened. Our participants struggled to find meaning in their crisis-threatening situation. Struggling with uncertainty and existential threats may lead to increased awareness of values in life (Logan et al. 2006, Bertero & Chamberlain Wilmoth 2007, Giske & Gjengedal 2007).

However, if the uncertainty of illness is also appraised as an opportunity, it becomes positive and enables patients to see life’s possibilities (Mishel 1990). Appreciation of life is stimulated when meaning can be found in situations of great uncertainty (Skaggs & Barron 2006). An important finding was that some of our participants started to reflect on their priorities in life. They discovered that their cancer implied a reminder to live for the moment and appreciate life more. Other studies (Cordova et al. 2001, Carver & Antoni 2004, Oxlad et al. 2008) confirm this enhanced sense of life purpose and appreciation of life after breast cancer surgery. Our participants’ ability to find meaning by giving priority to valuable experiences helped them to cope with uncertainty and death anxiety. The importance of finding meaning in illness that might strengthen coping abilities is described previously (Wallberg et al. 2003, Collie & Long 2005, Lally 2010). According to Folkman and Greer (2000), meaning-based coping helps individuals to relinquish problems and enables them to pursue goals and formulate new ones, make sense of what is happening and appraise benefits whenever possible. Some of the women even managed to reflect upon the positive sides of having breast cancer and were convinced that it would increase their personal mental strength, which
What is already known about this topic

- Being diagnosed with breast cancer is experienced as a major challenge and an important stressor in a woman’s life.
- How women cognitively and emotionally approach the diagnosis of breast cancer affects their experiences and postsurgery adaptation.
- Uncertainty is one of the major experiences reported by women with breast cancer.

What this paper adds

- While awaiting breast cancer surgery, and experiencing death anxiety, the women directed most energy at handling uncertainty about the future and the severity of their cancer.
- The women experienced the waiting time between breast cancer diagnosis and surgery as long and painful but also as necessary to prepare them physically and psychologically for the surgery.
- For women with newly diagnosed breast cancer, having to inform others (family, friends, colleagues) was experienced as a lonely burden of being obliged to both inform and offer consolation.

Implication for practice and/or policy

- Healthcare professionals could consider women’s individual needs about preparing themselves physically and psychologically for breast cancer surgery, and acknowledge that setting the date of surgery helps to alleviate anxiety.
- By being attentive and supportive, healthcare professionals may help women with newly diagnosed breast cancer awaiting surgery concerning the task of informing their family and friends about their diagnosis.
- Healthcare professionals could take into account the women’s individual existential experiences and offer the women opportunities to talk about their emotions and thoughts while awaiting breast cancer surgery.

What is already known about this topic

From a holistic nursing perspective it is important to understand the individual illness experiences, interpretations and contextual factors in these women’s lives. To improve these patients’ degree of adjustment, we tentatively suggest that healthcare professionals should be sensitive to the women’s individual existential experiences and offer them opportunities to talk about these issues. Similarly, these women’s needs about preparing themselves physically and psychologically for breast cancer surgery should be acknowledged. Being sensitive to and supportive of the women’s lonely burden of telling significant others about the diagnosis is essential. Finally, early setting of the surgery date helps to alleviate anxiety. Our findings give in-depth knowledge of women’s experiences while awaiting breast cancer surgery and may give healthcare professionals a deeper understanding which can be used to develop interventions to ease the women’s situation. Future research should be directed at follow-up studies about the potential impact of presurgery experiences on later experiences of living with breast cancer concerning physical, psychological, social and spiritual adaptation and at intervention studies.

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Conflict of interest

The authors declare no conflict of interest.

Author contributions

SD and TCL were responsible for the study conception and design. SD performed the data collection. SD, TCL, TG and KU performed the data analysis. SD, TCL, TG and KU were responsible for the drafting of the manuscript. SD, TCL, TG and KU made critical revisions to the paper for important intellectual content. TCL and KU supervised the study.

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