A meta-ethnography of patients’ experience of chronic non-malignant musculoskeletal pain

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Abstract

A meta-ethnography of patients’ experience of chronic non-malignant musculoskeletal pain

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Background: The alleviation of pain is a key aim of health care yet pain can often remain a puzzle as it is not always explained by a specific pathology. Musculoskeletal (MSK) pain is one of the most predominant kinds of chronic pain and its prevalence is increasing. One of the aims of qualitative research in health care is to understand the experience of illness, and make sense of the complex processes involved. However, the proliferation of qualitative studies can make it difficult to use this knowledge. There has been no attempt to systematically review and integrate the findings of qualitative research in order to increase our understanding of chronic MSK pain. A synthesis of qualitative research would help us to understand what it is like to have chronic MSK pain. Specifically, it would help us understand peoples’ experience of health care with the aim of improving it.

Aim: The aim of this study was to increase our understanding of patients’ experience of chronic non-malignant MSK pain; utilise existing research knowledge to improve understanding and, thus, best practice in patient care; and contribute to the development of methods for qualitative research synthesis.

Methods: We used the methods of meta-ethnography, which aim to develop concepts that help us to understand a particular experience, by synthesising research findings. We searched six electronic bibliographic databases (including MEDLINE, EMBASE and PsycINFO) and included studies up until the final search in February 2012. We also hand-searched particular journals known to report qualitative studies and searched reference lists of all relevant qualitative studies for further potential studies. We appraised each study to decide whether or not to include it. The full texts of 321 potentially relevant studies were screened, of which 77 qualitative studies that explored adults’ experience of chronic non-malignant MSK pain were included. Twenty-eight of these studies explored the experience of fibromyalgia.
Results: Our findings revealed the new concept of an adversarial struggle that explains the experience of people with chronic MSK pain. This included the struggle to affirm self and construct self over time; find an explanation for pain; negotiate the health-care system while feeling compelled to stay in it; be valued and believed; and find the right balance between sick/well and hiding/showing pain. In spite of this struggle, our model showed that some people were able to move forward alongside their pain by listening to their body rather than fighting it; letting go of the old self and finding a new self; becoming part of a community and not feeling like the only one; telling others about pain and redefining relationships; realising that pain is here to stay rather than focusing on diagnosis and cure; and becoming the expert and making choices. We offer unique methodological innovations for meta-ethnography, which allowed us to develop a conceptual model that is grounded in 77 original studies. In particular, we describe a collaborative approach to interpreting the primary studies.

Conclusion: Our model helps us to understand the experience of people with chronic MSK pain as a constant adversarial struggle. This may distinguish it from other types of pain. This study opens up possibilities for therapies that aim to help a person to move forward alongside pain. Our findings call on us to challenge some of the cultural notions about illness, in particular the expectation of achieving a diagnosis and cure. Cultural expectations are deep-rooted and can deeply affect the experience of pain. We therefore should incorporate cultural categories into our understanding of pain. Not feeling believed can have an impact on a person’s participation in everyday life. The qualitative studies in this meta-ethnography revealed that people with chronic MSK pain still do not feel believed. This has clear implications for clinical practice. Our model suggests that central to the relationship between patient and practitioner is the recognition of the patient as a person whose life has been deeply changed by pain. Listening to a person’s narratives can help us to understand the impact of pain. Our model suggests that feeling valued is not simply an adjunct to the therapy, but central to it. Further conceptual syntheses would help us make qualitative research accessible to a wider relevant audience. Further primary qualitative research focusing on reconciling acceptance with moving forward with pain might help us to further understand the experience of pain. Our study highlights the need for research to explore educational strategies aimed at improving patients’ and clinicians’ experience of care.

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# List of abbreviations

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<tr>
<td>ACT</td>
<td>acceptance and commitment therapies</td>
<td>HMIC</td>
<td>Health Management Information Consortium</td>
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<td>AMED</td>
<td>Allied and Complementary Medicine Database</td>
<td>HTA</td>
<td>Health Technology Assessment</td>
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<tr>
<td>CASP</td>
<td>Critical Appraisal Skills Programme</td>
<td>IPA</td>
<td>interpretive phenomenological analysis</td>
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<tr>
<td>CBP</td>
<td>chronic back pain</td>
<td>ISSG</td>
<td>Information Specialists’ Sub-Group</td>
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<tr>
<td>CINAHL</td>
<td>Cumulative Index to Nursing and Allied Health Literature</td>
<td>JBI-QARI</td>
<td>Joanna Briggs Institute Qualitative Assessment and Review Instrument</td>
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<tr>
<td>CRD</td>
<td>Centre for Reviews and Dissemination</td>
<td>MSK</td>
<td>musculoskeletal</td>
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<tr>
<td>GP</td>
<td>general practitioner</td>
<td>UNTRAP</td>
<td>University/User Teaching and Research Action Partnership</td>
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Scientific summary

Background

Many people suffer from chronic non-malignant musculoskeletal (MSK) pain, which affects how they feel and what they are able to do. This pain often has no medical explanation and does not go away. Some people find it so devastating that at times they would rather die than go on in pain. A greater understanding of patients’ experience of pain could have an impact on health care in this group. Qualitative research aims to understand experience and is widely used in health-care research. However, the increasing number of qualitative studies can make it difficult to use this knowledge to inform clinical practice. There has been no attempt to systematically search for, and make sense of, this growing body of research. A synthesis of qualitative research would help us to understand what it is like to have chronic MSK pain. Specifically, it would help us understand peoples’ experience of health care with the aim of improving it.

Objectives

The aim of this study was to:

- increase our understanding of patients’ experience of chronic non-malignant pain and therefore have an impact on quality of care
- utilise existing research knowledge to improve understanding and, thus, best practice in patient care
- contribute to the development of methods for qualitative research synthesis.

Methods

We used the methods of meta-ethnography. Meta-ethnography aims to develop ideas that will help us to understand a particular experience, by bringing together research findings. We included qualitative studies that explored adults’ experience of chronic non-malignant MSK pain. We searched six electronic bibliographic databases (including MEDLINE, EMBASE and PsycINFO) and included studies up until the final search in February 2012. We also hand-searched particular journals known to report qualitative studies and looked through reference lists. We then appraised each study to decide whether or not we felt that it was good enough to be included. After this, we read the studies and made a list of the ideas (or concepts) that were in them. We then separated these ideas into categories (or themes) with shared meanings. We did this by constantly comparing concepts to look for any similarities or differences between them. In meta-ethnography this process is called ‘translating qualitative studies into one another’. The final stage of the analysis involved developing a model that ‘makes sense’ of all of the concepts in the study. The aim was to make a whole that is greater than the sum of its parts, and generate explanations to improve understanding.

Results

The full texts of 321 potentially relevant studies were screened, of which 77 were included in the meta-ethnography. Forty-nine papers explored the experience of chronic MSK pain and 28 papers explored the experience of fibromyalgia. Our model shows that people with chronic MSK pain face a constant daily struggle to affirm their self, reconstruct a sense of self through time, find an explanation, negotiate the health-care system and prove legitimacy. These themes are adversarial, giving a sense that a person with...
chronic MSK pain struggles to prove that they are legitimate. However, in spite of this struggle there was also a sense that people can move forward alongside their pain. The following section describes the categories or ‘themes’ that were developed from the study.

**Struggling with chronic musculoskeletal pain**

1. **Struggling to affirm myself.** This describes the struggle to hold on to the ‘real me’. Pain alters the fundamental relationship with my own body. My painful body is no longer *me*, but it. I am powerless against this alien body. I look back nostalgically to the ‘real me’ and struggle to hold on to what I was. However, although I fight to be the person that I was, I know that I am irreparably altered. Pain threatens the relationships that I once had, and isolates me from others. I don’t tell anyone how I feel because I am trying to look like my old self. I sometimes feel angry and low, and I no longer feel like the person that I once was. Perhaps no one knows who I am any more.

2. **Construction of time altered; unpredictable now and future.** This describes how a person’s perception of their self through time is altered by pain. My plans, expectations and dreams for the future are gone. I cannot predict what my pain will be like from minute to minute and therefore I cannot make any plans. I now live in an endless present where I am constantly aware of my body. I have become cautious and can no longer be spontaneous. Although I live in the present moment, I also look towards the future and know that things are not going to be how I had wanted. The sense of certainty for the future is gone, and I am sometimes anxious or sad about what the future holds. I am struggling to find some hope.

3. **Struggling to construct an explanation for suffering.** This describes the need to find an explanation for pain and the value placed on diagnosis. No one knows why I continue to have pain and I have failed all the ‘medical tests’. Although I don’t want to be ill, I need to know what is wrong with my body so that I can do something about it. If I don’t have a diagnosis, people will not believe me. I don’t think my family, colleagues and doctors believe that I am in pain. Even though the health-care system cannot tell me what is wrong, I will keep looking for an explanation and a remedy.

4. **Struggling to negotiate the health-care system.** This describes the person’s ambiguous relationship with the health-care system. I feel compelled to go to the doctors even though no one has found an answer. I feel ‘trapped in the system’. I am continually referred to different health professionals and feel ‘like a shuttlecock’. I sometimes doubt whether the doctor knows what is wrong or what to do. Maybe nothing can be done. I do not feel valued as a person by my doctor. I need my doctor to listen to me, hear what I am saying and believe me. They do not understand how much this pain has changed my life.

5. **Struggling to prove legitimacy.** This focuses on the adversarial and contested nature of chronic pain. Because I do not have a medical diagnosis, I have to prove to everyone that I am a good and honest person who deserves their care. I struggle to find the right balance between hiding my pain and showing my pain to others. There seems to be a ‘right way’ of being in pain. If I appear ‘too sick’ or ‘not sick enough’ then people won’t believe me. I hide my pain from others so that I seem like my normal self. I sometimes feel ashamed or guilty about having pain that no one can explain, and would rather hide it from everyone. However, because I am trying to look like my normal self, nobody believes me, especially because I have no medical proof. I want other people to recognise that I am a ‘good’ person who is not to blame for my pain or how it has affected me. How do I try to look like my old self and show other people how much this pain has changed me?

**Moving forward alongside pain**

We also found that the person with MSK sometimes found ways of moving forward with pain: listening to the body, redefining a new self, becoming part of a community, telling others about pain, realising that pain is here to stay and becoming the expert of his or her body.

1. **Listening to and integrating my painful body.** This describes a new relationship of trust and co-operation with the body. If I listen to what my body is saying and respect it, I can continue to do the things that I want to do. I am no longer at the mercy of my body. By co-operating with my body I
can try and balance what I can and can’t do. I can then live my life more fully even though I am different now.

2. **Redefining normal and less focus on lost self.** This describes how the person in pain no longer focuses on their losses but on reconstructing a new self. I accept that things are now different and I am trying to find ways of moving forward with pain. I can still be me even if I am different to what I once was. I can enjoy life differently and I am still me. I focus on things that I can do now, not what I used to be able to do. At times, I still feel really sad to have lost my old ‘real self’, but realise that I need to move forward.

3. **Being part of a community of others with pain.** This describes the positive, yet ambivalent, impact of being part of a community of others with pain. When I meet others with chronic pain, I feel part of a community. I know that other people have the same thing so it must be real. I now feel that there are others who understand, believe and respect me. However, at the same time I feel that deep down I am different to the others. I do not want to go on about my pain all the time.

4. **Telling others about my pain.** This describes the benefit that comes from letting other people know about my pain. I now tell people that I have pain, and let them know that I cannot do all the things that I used to be able to do. I will sometimes tell others that I cannot do what they want me to do and that I need their help. I don’t always need to gain everyone’s approval. Now that I tell people about my pain, I feel more connected to those around me. I can make choices about what I do and don’t do so that I can still do the things that are important to me.

5. **Realising that there is no cure for my pain.** This describes the realisation that pain is here to stay, and the benefits of stopping the search for a diagnosis and cure. I am beginning to realise that I will always have some pain and that no one has an answer. I am not going to spend my time trying to find out what is wrong. This has stopped me from moving on. I can now move forward and find a new way of living. However, some described staying in the health-care system as important too.

6. **Becoming an expert.** This describes the process of becoming an expert. I don’t rely on my doctor as much to tell me what to do to make my pain better. I now listen to my body. I know more about my own body than anyone else does. I am becoming confident to try things out. I can make my own choices about what I do. I don’t need the doctor to say that it is OK because I am the expert of my own body.

**Conclusions**

This meta-ethnography provides a synthesis of concepts and suggests a model for pulling these concepts together. The concept of an adversarial struggle explained what it was like to have chronic MSK pain. This constant struggle for people with chronic MSK pain may distinguish it from other kinds of pain. For example, it seems unlikely that someone with cancer pain would feel the need to fighting it, letting go of the old self and finding a new self, becoming part of a community and not feeling like the only one, telling others about pain and redefining relationships, realising that pain is here to stay rather than focusing on diagnosis and cure and becoming the expert and making choices.

Our findings call us to challenge some of the cultural notions about illness, in particular the expectation that the doctor will find a diagnosis and offer an effective treatment. These cultural expectations are deep-rooted and can affect the experience of pain. For example, not having a diagnosis can produce powerful feelings, such as worthlessness, fear, shame, guilt. Our model also shows that not feeling believed can have an impact on a person’s participation in everyday life. For some years, qualitative research has shown that people with chronic MSK pain do not think that doctors believe them, and this finding has not changed in more recent studies. This has clear implications for clinical practice and education. Our model suggests that central to the relationship between patient and practitioner is the recognition of the patient as a person whose life has been deeply changed by pain. Our model suggests that feeling valued is not simply an adjunct to the therapy or an optional extra, but central to it.
In the context of recent developments in pain management, it would be useful for qualitative research to focus on the following experiences of chronic MSK pain:

- how a person in pain experiences his or her own body
- the meaning of acceptance for both patients and clinicians
- reconciling hope with acceptance that pain is here to stay
- other specific MSK pain conditions, for example shoulder pain.

Additional syntheses would also help us to understand the experience of chronic pain. For example, there is already a growing body of qualitative research exploring the experience of osteoarthritis. Efforts to synthesise qualitative research will help to make sure that qualitative research is accessible to a wider relevant audience.

Our research shows that meta-ethnography can be used to elicit concepts that increase our understanding of patients’ experience and enable us to explain the context in which people make decisions about health care. Although developed from studies of MSK pain, our model may also be transferable to other long-term conditions. Conceptual models developed from meta-ethnography can have an impact on quality of care. Our model opens up possibilities for therapies that aim to help a person to move forward alongside pain.

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The National Institute for Health Research Health Services and Delivery Research programme.
Chapter 1  Aims

The aims of this study were to:

- increase our understanding of patients’ experience of chronic non-malignant musculoskeletal (MSK) pain and therefore have an impact on quality of care
- utilise existing research knowledge to improve understanding and, thus, best practice in patient care
- contribute to the development of methods for qualitative research synthesis.
Chapter 2  Background

Chronic pain is common and universal; it occurs at all ages and in all populations and has been reported throughout recorded history.37

The alleviation of pain is a key aim of health care,2 yet pain can often remain a puzzle.3 Chronic pain persists beyond the expected healing time and, by definition, is not amenable to routine treatments such as non-narcotic analgesia.4 This is further complicated by the finding that pain is not always explained by a specific pathology and, even if a pathology is identified, the person will not necessarily develop pain.3 Some suggest that chronic pain be acknowledged as a condition in its own right, rather than as a symptom of specific underlying disease.3,5

Each year over 5 million people develop chronic pain.6 Population estimates suggest that around 25% of adults around the world suffer with moderate or severe pain,1,7,10 and for between 6% and 14% of these adults the pain is severe and disabling.3,11 We know that pain has a high impact on the individual’s physical, psychological and social well-being.12 For example, 49% of patients with chronic pain experience depression, 25% lose their jobs and 16% feel that their chronic pain is so bad that they sometimes want to die.6 Not only does pain have a major impact on participation in life, it also has an impact on ‘the economic balance-sheet of populations’ (p. 3).1 Estimates suggest that the cost of chronic pain to the national economy may run into tens of billions of pounds each year.2 Demographic changes leading to an increase in the older population are also likely to increase the need for appropriate health care.3,13 MSK pain (notably back and joint pain) and headache are possibly the most predominant kinds of chronic pain.3 MSK pain is pain associated with muscles, ligaments, tendons and bones. It can range from local pain (e.g. knee pain) to widespread bodily pain (e.g. fibromyalgia), making it difficult to accurately estimate how many people have chronic MSK pain. To further complicate this, those with severe MSK pain are also likely to suffer with pain in other parts of their body.3,13 However, we know that the prevalence of MSK pain in the population is high and appears to be increasing,14 and this may have an impact on the provision of health care for those in pain. A greater understanding of patients’ experience of chronic pain could help to shape future health care for this group.

There are some signs that chronic pain is now being seen from a public health perspective.1,15–17 The first English Pain Summit took place in November 2011, bringing together parliamentarians, health-care professionals, commissioners and patient groups to discuss chronic pain and pain services in the UK.2 Chronic pain is also one of the four clinical priorities of the Royal College of General Practitioners for 2011–14.18 The policy landscape suggests that access to effective pain relief is a fundamental human right that is often denied to those in chronic pain. However, there is a growing awareness that more could be done to support people in chronic pain to achieve the goal of living well with their pain. Recent policy published in England2 and further afield in the USA19 has begun to call for a cultural transformation in the way that people in chronic pain are viewed and treated and this meta-ethnography is set within this policy context.

One of the aims of qualitative research in health care is to understand the experience of illness and make sense of the complex processes involved. It aims to generate concepts that allow us to understand behaviour.20 Qualitative interpretations allow us to ‘anticipate’ rather than predict what might happen in a particular situation.20 It can thus lead to substantial improvements in health-care and policy decisions by enabling clinicians and policy-makers to understand the appropriateness and meaningfulness of interventions. The Cochrane Qualitative Research Methods Group acknowledges the importance of including qualitative findings within evidence-based health care and stresses that ‘evidence from qualitative studies can play an important role in adding value to systematic reviews for policy, practice and consumer decision-making’ (p. 571).21 Syntheses of the existing body of qualitative research can also help to identify
gaps in knowledge and to target these gaps. Insights from several meta-ethnographies in health care have contributed to a greater understanding of complex processes such as medicine taking, 22 adherence to treatments for diabetes 23 and use of antidepressants. 24 Excluding qualitative research from evidence-based practice may mean that we omit vital information from decisions related to policy and practice. 25

However, the proliferation of studies exploring the experience of chronic non-malignant MSK pain makes it difficult for clinicians and policy-makers to use this knowledge to inform practice and policy, and increases the danger that these findings are ‘doomed ultimately never to be visited’ (p. 786). 26 There is a growing body of qualitative research exploring patients’ experience of chronic MSK pain, yet there has been no attempt to systematically search the qualitative literature with the aim of increasing our conceptual understanding. The aim of qualitative synthesis is to systematically review and integrate the findings of qualitative research to increase our understanding.
Chapter 3 Methods

There are various methods for synthesising qualitative research.\textsuperscript{27–30} Studies range from those aiming to describe qualitative findings to those that aim to be more interpretive and generate theory. As qualitative synthesis generally aims to move beyond description,\textsuperscript{31} it may be more useful to see these two approaches as two poles on a continuum. Meta-ethnography is an interpretive form of knowledge synthesis, proposed by Noblit and Hare,\textsuperscript{20} that aims to develop new conceptual understandings. As we aimed to produce a conceptual synthesis of qualitative findings related to chronic non-malignant MSK pain, we chose to use meta-ethnography as our method of qualitative synthesis. Some authors argue that meta-ethnography is more suited for synthesising a small number of studies.\textsuperscript{23,32} Reviews of published qualitative syntheses show that, in the majority of syntheses using meta-ethnographic methods, the number of studies included ranges from 3 to 44.\textsuperscript{25,28,32} There are only a very small number of meta-ethnographic syntheses that include a larger number of studies than this.\textsuperscript{25,28} However, we knew that we were likely to find a large number of relevant studies and aimed to see if meta-ethnography could be used to synthesise when there is a large body of qualitative research. Meta-ethnography has been successfully used to synthesise qualitative studies in health care. In a recent Health Technology Assessment (HTA) report evaluating meta-ethnography, Campbell and colleagues\textsuperscript{28} identified 41 qualitative syntheses. Six of these explicitly employed meta-ethnography to synthesise findings and a further 16 described their method as meta-ethnographic. Other reviews of qualitative syntheses suggest that the number is much larger than this and increasing dramatically.\textsuperscript{25,32} For example, Hannes and colleagues\textsuperscript{32} demonstrated that the number of qualitative syntheses in 2008 had doubled within 4 years, and that the most commonly used method of synthesis is meta-ethnography. We searched the medical databases [Allied and Complementary Medicine Database (AMED), EMBASE, Health Management Information Consortium (HMIC), MEDLINE, PsycINFO, British Nursing Index (BNI) and Cumulative Index to Nursing and Allied Health Literature (CINAHLL)] using the terms meta AND ethnography (in title and abstract) and found 19 additional health-care studies published between 2009 and 2012 that explicitly used meta-ethnography.\textsuperscript{24,33–50} This limited search may underestimate the number of qualitative syntheses now using meta-ethnography, but it seems clear that a growing number of researchers are using meta-ethnography to synthesise qualitative findings. Noblit and Hare\textsuperscript{20} propose seven stages to a meta-ethnography synthesis, which take the researcher from formulating a research idea to expressing the findings of research (Figure 1). These stages are not discrete but form part of an iterative research process.

1. Getting started

This stage of the research involves ‘finding something that is worthy of the synthesis effort’ (p. 27).\textsuperscript{20} The decision to develop a conceptual synthesis of patients’ experience of chronic non-malignant MSK pain was an iterative process that was sparked at the British Pain Society Annual General Meeting in 2009 when two of the research team (FT and KS) first met. From here we approached other members of the team with a specific interest and expertise in chronic pain, qualitative research and research synthesis (Box 1). We began with informal meetings and telephone discussions, which culminated in a successful application to fund the project. The study protocol is provided in Appendix 1.

The development of this meta-ethnography was both iterative and collaborative. Team members felt free to agree, disagree or change their mind within the safety of the group. The aim of considering alternative views within a team is not necessarily to agree on an interpretation but rather to enter into a dialectic process whereby our ideas are challenged and modified. This can lead to greater conceptual insight by challenging the boundaries of our own interpretations, just as a single word from another person can jog our memory or spark off insight when we had not expected it.

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FIGURE 1 Seven stages of Noblit and Hare’s meta-ethnography.

BOX 1 Background of co-applicants

- FT has a master’s degree in Archaeology and Anthropology and is also a qualified physiotherapist with an interest in chronic pain management. She has expertise in qualitative health research and methodology.
- KS has a quantitative and qualitative health and pain research background and has used mixed methods in most of her research. She has experience of systematic reviews and qualitative research synthesis using meta-ethnography. Her professional background is in nursing.
- NA is a doctoral-qualified nurse academic and practising pain nurse. He has completed syntheses of qualitative research using Joanna Briggs Institute Qualitative Assessment and Review Instrument (JBI-QARI) methodology.
- MB has broad experience in systematic reviews. She has completed syntheses of qualitative research using JBI-QARI methodology. Her professional background is in nursing.
- EC qualified as a nurse and throughout her 25-year research career has utilised mixed methods in her pain research.
- KB is a qualified physiotherapist with 20 years of experience of running chronic pain management programmes. She is also an experienced researcher and uses mixed methods in most of her research.
Throughout the project the project team met monthly either face-to-face or in Skype™ meetings (Skype Ltd Rives de Clausen, Luxembourg). We also met regularly with an advisory group that included two patient representatives and three NHS clinicians with experience in pain management (Box 2). The terms of reference for the advisory group are shown in Box 3.

2. Deciding what is relevant

This stage involved systematically searching for, screening and appraising potential studies to decide which to include in the synthesis. Qualitative syntheses do not aim to summarise the entire body of available knowledge, or make statistical inference from it. Qualitative syntheses are concerned with conceptual insight. Noblit and Hare strongly suggest that it is not necessary to include all published reports in a meta-ethnography: ‘Unless there is some substantive reason for an exhaustive search, generalizing from all studies of a particular setting yields trite conclusions’ (p. 28).

Campbell and colleagues also suggest that ‘omission of some papers is unlikely to have a dramatic effect on the results’ of qualitative synthesis (p. 35). However, for several reasons we decided to undertake a systematic search of published qualitative studies reporting patients’ experience of chronic MSK pain. Importantly, this project provided funding and the unique opportunity to identify the qualitative studies published in this area, and identify any gaps in knowledge. We wanted to produce a conceptual analysis with a weight of evidence that would have resonance with the health research community who were more used to quantitative systematic reviews. Finally, whereas previous meta-ethnographies in health care have included small numbers of studies, we knew that a systematic search in our chosen area would allow us to apply the methods of meta-ethnography to a large number of studies. Although Campbell and colleagues suggest that trying to include too many studies in a qualitative synthesis is unwieldy, we wanted the opportunity to see whether meta-ethnography could be useful in synthesising a large body of

BOX 2 Membership of the advisory group

- A patient who has recent experience of treatment for non-malignant MSK pain from a NHS trust.
- A patient with an interest in research from University/User Teaching and Research Action Partnership (UNTRAP) based at the University of Warwick. UNTRAP is a partnership between users of health and social care services and carers, the University of Warwick and the NHS. It aims to support the involvement of service users and carers in teaching and research.
- A consultant in pain management who has been actively involved in policy decisions for chronic pain.
- Two members of NHS staff working in chronic non-malignant pain.

BOX 3 Terms of reference for the advisory committee

- To advise the project team and partner institutions on the project plans, including scope and range.
- To review objectives and progress against plans and objectives.
- To discuss and recommend any variations and developments.
- To monitor the relationships between the current partners and any future additional institutions.
- To review and discuss the quality of the research.
- To help the researchers contribute to knowledge at a European and an international level.
qualitative knowledge. With the ever-expanding body of qualitative research, qualitative syntheses are increasingly likely to identify large numbers of studies.

**Scope of the search**

- **Inclusions.** Fully published reports of qualitative studies that explored adults’ experience of chronic non-malignant MSK pain. Chronic pain was defined as pain lasting for ≥ 3 months.
- **Exclusions.** Cancer pain, neurological pain (e.g. stroke, multiple sclerosis), phantom pain, facial pain, head pain, dental/mouth pain, abdominal/visceral pain, menstrual/gynaecological pain, pelvic pain, samples in which the experience of the patient cannot be disentangled from that of others (e.g. carers, clinicians, partners), studies that explore chronic illness not explicitly chronic pain (e.g. rheumatoid arthritis studies that do not explicitly explore the experience of pain), samples that include conditions other than chronic MSK pain, auto-ethnography and studies that report individual case studies.

**Search strategies**

Strategies for identifying qualitative research may be unwieldy and often ‘trade-offs’ between recall and precision are necessary. For this study we employed a qualified research librarian to help conduct the search. We chose several strategies:

**Electronic databases**

First, using a combination of free-text terms and thesaurus terms or subject headings we searched for relevant qualitative studies using six electronic bibliographic databases (MEDLINE, EMBASE, CINAHL, PsycINFO, AMED and HMIC). Studies were included up until the final search in February 2012 and there were no exclusions for dates. We used search terms available from the InterTASC Information Specialists’ Sub-Group (ISSG) Search Filter Resource (see www.york.ac.uk/inst/crd/intertasc/; accessed June 2013) to develop our search strategy. The ISSG is a group of information professionals supporting research groups producing technology assessments for the National Institute for Health and Care Excellence (NICE). The search was limited to studies of adults. As meta-ethnography relies on identifying and defining concepts within each study, we also chose to limit the search to English-language studies. The search syntax used for MEDLINE is shown as an example in Box 4 and the syntax for the other electronic databases is shown in Appendix 2.

**Hand-searching**

Hand-searching journals is an important strategy for comprehensively identifying relevant qualitative studies. At an early team meeting we identified specific journals reporting significant numbers of qualitative research studies in full. These journals were Journal of Advanced Nursing, Social Science & Medicine, Qualitative Heath Research, Sociology of Health and Illness and Arthritis Care and Research. We subsequently added three additional journals for hand-searching (Disability and Rehabilitation, Scandinavian Journal of Caring Sciences and BMC Musculoskeletal Disorders) as these contributed the highest numbers of potential hits in the database searches (40, 20 and 15 studies respectively). We hand-searched the contents lists of these journals for 2001–11.

**Reference lists**

Finally, we searched the reference lists of all relevant qualitative studies for further potential studies. We did not specifically search the grey literature as we wanted to include fully published research reports only.

**Screening**

Once we had identified potential studies we adapted the process as outlined by Sandelowski and Barroso to exclude articles that did not meet the inclusion criteria. The stages of screening are shown in Figure 2. A research librarian and researcher (FT) screened the titles of the identified articles. If they were uncertain whether to include a study after reading the title, FT read the abstract. If she was still uncertain about inclusion, the full text was checked by two researchers. If they remained uncertain the article was sent to the full team for a consensus decision.
The use of quality criteria for qualitative research is widely debated. There are now many suggested frameworks for appraising the quality of qualitative research, yet no consensus on what makes a qualitative study 'good' or 'good enough'. Although it is clear that structured checklists do not produce consistent judgements in qualitative research appraisal, these checklists may be useful in providing a focus for discussions. Some researchers suggest that we attempt to distinguish 'fatal' methodological flaws in qualitative systematic reviews. Others argue that quality appraisal should not be used at all to exclude studies from qualitative synthesis. As appraisal tools tend to focus on method, some argue that excluding studies on this basis may mean that insightful studies are excluded. However, although Campbell and colleagues suggest that studies should not be excluded on the grounds of quality, they do not recommend 'abandoning appraisal' altogether.

**Quality appraisal**

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**Box 4 Example of search syntax used for MEDLINE**

1. RESEARCH, QUALITATIVE/
2. ATTITUDE TO HEALTH/
3. INTERVIEWS AS TOPIC/
4. FOCUS GROUPS/
5. NURSING METHODOLOGY RESEARCH/
6. LIFE EXPERIENCES/
7. (qualitative OR ethno$OR emic OR etic OR phenomenolog).mp
8. (hermeneutic$OR heidegger$OR husserl$OR colaiazzi$OR giorgi$OR glaser strauss).mp
9. (van AND kaam$OR van AND manen OR constant AND compar$).mp
10. (focus AND group$OR grounded AND theory OR narrative AND analysis OR lived AND experience$OR life).mp
11. (theoretical AND samp$OR purposive AND samp$OR ricoeur OR spiegelberg$OR merleau).mp
12. (field AND note$OR field AND record$OR fieldnote$OR field AND stud$).mp;
13. (participant$adj3 observ$).mp
14. (unstructured AND category$OR structured AND category$).mp
15. (maximum AND variation OR snowball).mp
16. (metasynthes$OR meta-synthes$OR metasummar$OR meta-summ$OR metastud$OR meta-stud$).mp
17. “action research” .mp
18. (audiorecord$OR taperecord$OR videorecord$OR videotap$).mp
19. exp PAIN/
20. exp ARTHRITIS, RHEUMATOID/
21. exp FIBROMYALGIA/
22. exp OSTEOARTHRITIS/
23. MUSCULOSKELETAL DISEASES/
24. exp ARTHRITIS/
25. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18
26. 19 or 20 or 21 or 22 or 23 or 24
27. 25 AND 26
28. cancer.ti,ab
29. 27 NOT 28
30. 29 [Limit to: English Language and Humans and (Age Groups All Adult 19 plus years)];
To be utilised within a meta-ethnography, a study must provide an adequate description of its concepts (Pope C, Britten N. Workshop on qualitative synthesis and meta-ethnography, course on meta-ethnography at Oxford Brookes University, June 2009, personal communication with FT, and references 20 and 28). We agreed that conceptual insight was fundamental to meta-ethnography, but also felt that papers should be reported ‘well enough’ methodologically to allow us to make a judgement about the inductiveness of the findings. In summary, we felt that we needed some assurances that a report was inductive and grounded in patients’ experience. To provide a focus for team discussion, the team decided to use checklists to assist quality appraisal. We did not intend to use a particular score as a cut-off point, but wanted to explore the utility of these scores for quality appraisal in qualitative synthesis. We used three methods of appraisal. First, we used the questions developed by the Critical Appraisal Skills Programme (CASP) for appraising qualitative research59 (Box 5), which have been used for appraising the quality of studies for meta-ethnography.23,60,61 The CASP tool consists of 10 questions to consider when appraising qualitative research. Although it was not designed to provide a numerical score, we wanted to explore whether a score could be used to assist quality appraisal for meta-ethnography. After some discussion, the team agreed to assign a numerical score to each question to indicate whether we felt that the CASP question had (1) not been addressed, (2) been addressed partially or (3) been extensively addressed. This gave each paper a score ranging from 10 to 30.

Second, as two team members (NA and MB) were experienced in the use of the JBI-QARI in systematic reviews of evidence,62 we used this alongside the CASP tool as an alternative appraisal tool to stimulate discussion. The JBI-QARI also consists of 10 questions, which are rated as ‘yes’, ‘no’ or ‘unsure’ (Box 6). After rating each question the reviewer then makes the decision to include or exclude the paper. Early in the appraisal process we agreed that the JBI-QARI did not add anything further to the CASP tool with regard to the final decision on inclusion. However, for completeness we continued to grade each paper.

FIGURE 2 Process for screening articles from the searches.
Finally, we categorised each paper as a key paper (conceptually rich and could potentially make an important contribution to the synthesis), a satisfactory paper, a paper that is irrelevant to the synthesis or a methodologically fatally flawed paper. This method has also been used to determine inclusion of studies into meta-ethnography. The concepts ‘fatally flawed’, ‘satisfactory’ and ‘key paper’ have not been defined but are global judgements made by a particular appraiser that comprise several unspecified factors.

To test and refine the appraisal process each team member independently appraised the first 10 relevant studies identified and met to discuss their decisions. Two team members (FT and JA) appraised all subsequent papers and, if they were unable to reach an agreement, the paper was sent to two other team members to make a final decision (Figure 3). Team members were rotated so that they did not always appraise papers with the same person.

### 3. Reading the studies

This stage of meta-ethnography involves thoroughly reading and rereading the studies to identify and describe the concepts. This requires ‘extensive attention to the details in the accounts’ (p. 28). Thorough reading continues throughout all phases of meta-ethnography rather than being a discrete phase.

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**BOX 5** The CASP tool: 10 questions for appraising qualitative research

1. Was there a clear statement of the aims of the research?
2. Is a qualitative methodology appropriate?
3. Was the research design appropriate to address the aims of the research?
4. Was the recruitment strategy appropriate to the aims of the research?
5. Were the data collected in a way that addressed the research issue?
6. Has the relationship between researcher and participants been adequately considered?
7. Have ethical issues been taken into consideration?
8. Was the data analysis sufficiently rigorous?
9. Is there a clear statement of findings?
10. How valuable is the research?

**BOX 6** The JBI-QARI: 10 questions for appraising qualitative research

1. Is there congruity between the stated philosophical perspective and the research methodology?
2. Is there congruity between the research methodology and the research question or objectives?
3. Is there congruity between the research methodology and the methods used to collect data?
4. Is there congruity between the research methodology and the representation and analysis of data?
5. Is there congruity between the research methodology and the interpretation of results?
6. Is there a statement locating the researcher culturally or theoretically?
7. Is the influence of the researcher on the research, and vice versa, addressed?
8. Are participants, and their voices, adequately represented?
9. Is the research ethical according to current criteria or, for recent studies, is there evidence of ethical approval by an appropriate body?
10. Do the conclusions drawn in the research report flow from the analysis, or interpretation, of the data?
After the first reading, FT uploaded a PDF version of each complete study into NVivo 9 software (QSR International, Southport, UK) for analysing qualitative data. This allowed her to reread the primary research findings throughout all stages of analysis and compare the original interpretations to developing ideas. NVivo 9 allowed FT to collect, organise and analyse a large body of knowledge by ‘coding’ findings from the results and discussion sections of papers under ‘nodes’. Findings can be coded under several nodes simultaneously and the overlap between coding can be easily observed. This is particularly useful for team analysis as it allows the researcher to easily make a record of how each team member has coded data, whilst continuing to return to the original articles. NVivo 9 also allows researchers to write memos and link these memos to specific data to keep track of developing ideas and theories. FT classified each study on NVivo 9 so that the team could identify the following study characteristics: author, journal, year of publication, type of pain, number and age of participants, source and country of participants (e.g. pain clinic in UK), method of data collection (e.g. interviews) and methodological approach (e.g. grounded theory).

4. Determining how studies are related to each other

The purpose of careful reading in meta-ethnography is to identify and describe the ‘metaphors’ or concepts in studies and ‘translate’ or compare them with those in other studies. This is fundamental to meta-ethnography because concepts are the raw data of the synthesis. This stage involves creating ‘a list of key metaphors, phrases, ideas and/or concepts’ (p. 28). However, although meta-ethnography requires clearly articulated concepts, it can sometimes be difficult to decipher these concepts through the description, in other words to see ‘the wood through the trees’. For example, the reader may find him- or herself attempting to recode findings or to condense them into higher conceptual categories to make sense of them. One of the aims of qualitative analysis is to develop conceptual categories that help us to understand an experience, rather than just describe that experience. We describe a concept as a meaningful idea that develops by comparing particular instances. Fundamentally, concepts must explain not just describe the data.

However, as the act of description itself requires a level of interpretation, it can be difficult to decipher a concept; it may be more useful to understand ‘description’ and ‘concept’ as two poles on a spectrum. Campbell and colleagues recognise this difficulty: ‘It became apparent that the distinction between

![Diagram of the process for appraising papers.](image-url)
findings and concepts was neither simple to make nor useful, and because it was felt to be unnecessary it was abandoned’ (p. 55).

Sandelowski and Barroso also recognise the complexity of synthesising qualitative findings when levels of interpretation can range from thematic surveys, which make some effort to ‘move beyond a list’, to ‘fully integrated explanations’ of social phenomena (p. 145). Schütz’s concept of first- and second-order constructs is frequently used in meta-ethnography studies to distinguish the data of meta-ethnography. Schütz makes a distinction between (1) first-order constructs (the participants’ ‘common sense’ interpretations in their own words) and (2) second-order constructs (the researchers’ interpretations based on first-order constructs). The ‘data’ of meta-ethnography are second-order constructs. In meta-ethnography, these second-order constructs are then further abstracted to develop third-order constructs (the researchers’ interpretations of the original authors’ interpretations). However, the distinction between first- and second-order constructs is somewhat ‘unclear’. Importantly, although first-order constructs are often presented in meta-ethnographies to represent the patients’ ‘common sense’ interpretations in their own words, it is important to remember that these words are chosen by the researchers to illustrate their second-order interpretations. Our approach deviates from that of other meta-ethnographies in that we chose to base our synthesis entirely on second-order constructs. Specifically, we made the decision to only include concepts that we felt were clearly articulated. We did not attempt to ‘reorganise’ findings, but excluded data from analysis if we could not decipher a concept. We made this decision because of the methodological issues surrounding the reorganisation of data from qualitative research. The second-order interpretation is based on a body of knowledge accessed through fieldwork. Therefore, attempts to reorganise findings without access to the wider body of knowledge might not illuminate the conceptual interpretation originally intended. In other words, we could argue that attempts at reorganisation are not grounded in the body of knowledge. We therefore made the decision to define the second-order constructs and not to include findings for which we could not decipher a concept.

A collaborative approach to interpreting second-order constructs

A fundamental issue with deciphering second-order constructs is that readers interpret concepts in light of their own experience. Thus, different readers may suggest different interpretations. Thus, a meaningful idea for one researcher may not be meaningful for another; one reader might see a concept whereas another might see no more than a description. The reader makes a personal judgement about whether there is a relevant concept and how to describe it. The unique methodological variance of our approach was to take a collaborative approach to interpreting second-order constructs and, thus, challenge our individual interpretations. In this way we aimed to consider alternative interpretations and ensure that interpretation of second-order constructs from the primary papers remained grounded in the originating studies. Paterson and colleagues advocate the benefits of collaborative endeavours for qualitative syntheses, as collaboration ‘requires that researchers be willing and able to risk voicing opinions not shared by everyone else in the group’ (p. 28). In short, the interpretation of each second-order construct entering the analysis was negotiated and constructed collaboratively.

To do this, three members of the team (FT, JA and one other team member selected on rotation) read each paper to identify and describe their interpretation of each construct. The team then discussed and developed a collaborative interpretation of each second-order construct. Because of the scale of the study and the potential number of second-order constructs, our interpretations needed to combine clarity and precision in as few words as possible. We therefore used a combination of the authors’ description of the second-order construct (when it briefly and clearly described the construct) and our interpretation of the original construct (if the original was unclear or lengthy). Our collaborative interpretations form the raw data of our synthesis in the same way that interview narrative forms the ‘data’ of qualitative analysis. This approach allowed us to compile an inventory of concise interpretations of second-order constructs that we felt confident were grounded in the primary studies.
Untranslatable concepts

If team members agreed that there was no clear concept articulated, we labelled it ‘untranslatable’ and did not include it in the analysis. For example, Smith 2007 contains the concepts ‘negative impact on self’, ‘continuing hierarchy’, ‘public arena makes it worse’, ‘directing it at others’ and ‘the sting in the tail’. The right window shows a memo attached to the concept ‘negative impact on self’. This memo shows three team members’ interpretations of the concept and the final interpretation of this concept used in the analysis. Reproduced with permission from Taylor & Francis Ltd, URL: www.tandfonline.com: Smith JA, Osborn M. Pain as an assault on the self: an interpretative phenomenological analysis of the psychological impact of chronic benign low back pain. *Psychol Health* 2007; 22: 517–35.

**Methods**

14

NIHR Journals Library  www.journalslibrary.nihr.ac.uk
5. Translating studies into each other

The next stage in meta-ethnography involves exploring how the second-order constructs are related to each other, thus translating studies into each other. This is achieved through the constant comparative method of grounded theory. By constantly comparing constructs we begin to see similarities and differences between them and organise them into further abstracted conceptual categories with shared meanings. In other meta-ethnographies, for example those of Campbell and colleagues, researchers have used an index paper as a way of orienting the synthesis. In these examples, concepts from an early or ‘index’ paper are compared with concepts from subsequent studies. However, there are methodological issues with using an index paper to begin analysis. One could argue that using an index paper is comparable to being constrained by a priori concepts. There is also the problem of how to decide which paper to use as an index paper. The chosen index paper can potentially have a dramatic effect on the resulting interpretation. How do we define a ‘classic’ paper? There is no consensus about what makes a study ‘good’, and suggested criteria for appraising quality vary considerably. We also need to consider that we will not necessarily find the conceptually rich papers first. Qualitative analysis does not start when the full body of data is collected but continues alongside data collection; the process of searching and analysing is iterative. The decision to use an index paper may rest on the number of studies to be synthesised. We knew that this meta-ethnography would include a large number of studies and comparing concepts across studies from an index paper in this way was likely to be unwieldy.

All team members were given the full list of second-order constructs and asked to organise them, through constant comparison, into categories or ‘piles’ that shared meaning. Each team member wrote a description for each category or ‘pile’. This process of categorisation using constant comparison is integral to qualitative research. The team met to discuss their categories and definitions. We did not aim to reach consensus, but to collaboratively develop our interpretations over time. At team meetings members broke into separate groups and then regrouped to discuss findings. Conceptual categories were written up on a whiteboard and discussed. Although team members gave different labels to their categories, it became clear through discussion that there was an encouraging overlap in the definitions of categories. Table 1 gives the team categories for the MSK second-order constructs and illustrates the overlap in team categories. For example, the concept that later developed as ‘struggling to affirm self’ was labelled as ‘self and body’, ‘body in pain’, ‘body is alien’, ‘pain as alien’, ‘altered body’ and ‘body self’. If we found that second-order constructs did not ‘fit’ our developing conceptual categories, we went back to the original studies to challenge our interpretations and discussed the constructs within the group. We also went back to the original studies after the final model was developed to check for fit. If we still felt that a construct did not ‘fit’, we did not include it in the analysis.

We kept the second-order constructs for fibromyalgia, chronic back pain (CBP) and all other MSK studies separate from each other so that we could explore any differences in conceptual categories between these groups. The process of categorising second-order constructs was repeated for MSK, fibromyalgia and CBP. After several team meetings we agreed to amalgamate MSK and CBP studies as the categories overlapped considerably. However, we decided to keep the fibromyalgia studies separate in the analysis as there were some differences in categorisation. Figure 5 shows how we compared and contrasted categories for MSK and CBP using a whiteboard. The same process was repeated for MSK and fibromyalgia.

Using NVivo 9 to assist analysis

We combined the benefits of face-to-face team discussions with the benefits of using NVivo 9 software for qualitative analysis. NVivo is commonly used by qualitative researchers to assist analysis. However, not all qualitative researchers would choose to use computer software to organise their thoughts. We do not advocate a ‘right’ way of doing this, as it is a matter of personal preference. Some researchers prefer to use a more ‘hands-on’ approach with pen, paper and scissors; we also needed to consider that not all team or advisory group members had access to the computer software. Although NVivo 9 has the capacity to allow multiple researchers to simultaneously code onto a single database, we felt that because of the scale of the study this would be unwieldy, and therefore the principal investigator (FT) maintained and use a more hands-on approach with pen, paper and scissors; we also needed to consider that not all team or advisory group members had access to the computer software. Although NVivo 9 has the capacity to allow multiple researchers to simultaneously code onto a single database, we felt that because of the scale of the study this would be unwieldy, and therefore the principal investigator (FT) maintained and
## Table 1: Team categories for MSK second-order constructs

<table>
<thead>
<tr>
<th>Conceptual categories for MSK</th>
<th>FT</th>
<th>JA</th>
<th>KB</th>
<th>KS</th>
<th>NA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health-care professionals</td>
<td>The system</td>
<td>Health care as barrier</td>
<td>Health-care professionals</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The system</td>
<td>The system</td>
<td>Health-care professionals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medication</td>
<td>Body in pain</td>
<td>Body self</td>
<td>Striving to be normal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self and body</td>
<td>Body is alien</td>
<td>Pain as alien</td>
<td>Body self</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I am not me</td>
<td>Mind body image esteem</td>
<td>Altered body</td>
<td>Dualism</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relationship to body</td>
<td>Normal vs. abnormal</td>
<td>Loss of self</td>
<td>Who am I – sense of self</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thinking about future</td>
<td>Challenges of pain</td>
<td>Hope vs. despair</td>
<td>Unpredictability and fear emotions</td>
<td></td>
<td></td>
<td></td>
</tr>
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### Methods

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organised the NVivo 9 database. FT found it useful to code and organise the second-order constructs using NVivo 9. After each team meeting FT transferred the coding, categorising and supporting definitions and notes for each team member onto the NVivo 9 database (Figure 6). This allowed her to compare how each team member had categorised and defined conceptual categories and to return to the original article. Although the software has the capacity to produce models and graphics to support analysis, we found it more useful for team analysis to use a whiteboard when developing our conceptual models.

6. Synthesising translations

The next stage of meta-ethnography is to synthesise or make sense of the process of translation. Noblit and Hare suggest three genres of synthesis for meta-ethnography: (1) refutational (in which findings contradict each other), (2) reciprocal (in which findings are directly comparable) and (3) findings are taken together and interpreted as a line of argument. This third type of synthesis involves ‘making a whole into something more than the parts alone imply’ (p. 28). We intended to develop a line of argument synthesis. This is achieved by constantly comparing concepts and suggesting an interpretive order. In the words of Noblit and Hare: ‘We first translate the studies into one another. Then we develop a grounded theory that puts the similarities and differences between studies into interpretive order’ (p. 64).

Drawing on team discussions, and using NVivo 9 to continually compare concepts, categories and team memos, we developed a structure of categories that ‘made sense’ of the developing team analysis. Each team member then considered whether or not the structure reflected the discussions that had taken place. If a team
member did not think that a particular second-order construct fit, we discussed this in meetings and made any necessary changes. Figure 7 shows how the final list of categories was developed using NVivo 9.

We found it useful to construct a diagram to develop and refine our line of argument. This diagram was developed collaboratively over time and was the focus for team discussions during this phase. Figure 8 illustrates the development of this model in team meetings using a whiteboard. Several amended versions of this diagram were created until we arrived at a model that reflected our final interpretation.

**7. Expressing the synthesis**

This phase concerns the dissemination of the research findings to maximise their impact.
FIGURE 7 Team coding structure for MSK using NVivo 9. Published with permission from QSR International. This illustrates the final structure of categories for the MSK second-order constructs on NVivo 9.

FIGURE 8 Developing a line of argument using a whiteboard.
Chapter 4  Results

Deciding what is relevant

Search and screening
The results of the systematic search are shown in Figure 9. We screened the full text of 321 potentially relevant studies and excluded 228 for the following reasons:

- included people younger than 18 years70–75
- case study or auto-ethnography76–81
- chronicity of pain was not explicit in the sample description82–122
- reported conditions other than MSK pain123–172
- did not explicitly state that it was specifically about MSK pain173–209
- included perceptions of others such as family members, carers, clinicians210–243
- included those with pain of < 3 months in duration244–265
- did not meet the specific scope, for example explored perceptions of fatigue or exercise266–280
- explored the experience of chronic disease rather than chronic pain.281–295

Ninety-three studies66,296–387 met the study scope and were appraised (see Figure 9).

Quality appraisal
Figure 10 shows that we appraised 93 studies and excluded 16,296–311 meaning that we included 77 studies66,312–387 in the meta-ethnography. There was a wide range in CASP scores between FT and JA, from –12 to 5. Table 2 shows the scores and ranks given to all papers appraised by the team.

Following study appraisal, FT and JA agreed on 69 of the 93 studies (61 included, eight excluded). We did not use a cut-off score for inclusion. FT and JA did not agree on 24 studies and these were sent to be appraised by two other members of the team (16 included, eight excluded). Table 3 shows the percentage agreement between FT and JA for each method of appraisal. Agreement between FT and JA ranged from 52% to 74% for the CASP questions and from 29% to 82% for the JBI-QARI questions. Agreement for the rankings ‘fatally flawed’, ‘satisfactory’ or ‘key paper’ was 62%. The median (range) scores for papers rated as ‘fatally flawed’, ‘satisfactory’ and ‘key paper’ are shown in Table 4. FT and JA agreed that five studies were key papers; FT graded a further five as key papers and JA graded a further seven as key papers (Table 5). Because of this low level of agreement, the category ‘key paper’ was not useful for the purpose of analysis. Although we had discussed the possibility of performing a form of ‘sensitivity analysis’ to determine whether or not our findings were altered if we included only key papers, lack of agreement over what a key paper was made this impossible; we also could not use the other scores to determine any particular level of evidence.

Included studies
We included 77 papers in the meta-ethnography reporting 60 individual qualitative studies. The studies that produced more than one paper are indicated in Tables 6 and 7. Forty-nine papers (37 individual studies) explored the experience of people with chronic MSK pain.66,312,323,325,326,330–334,336,338,342–345,350,353–358,362–365,367,372,374,376,379,385–387 Twenty-eight papers (23 individual studies) explored the experience of people with fibromyalgia.324,327–329,335,337,339–341,346,349,351,352,359–361,366,373,375,377,378,380–384 A description of these studies is provided in Tables 6 and 7, showing for each study the age range and source of participants, the country where the study was carried out, the method of data collection and the methodology used.

Figure 11 shows the sources of the included studies. In total, 74% of the included studies (n = 57) were identified from MEDLINE and 95% of the studies (n = 73) were identified by combining MEDLINE, CINAHL.
FIGURE 9 Results of the search strategy.

FIGURE 10 Results of quality appraisal by the team.
### TABLE 2 Team appraisal results

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</tr>
<tr>
<td>Holloway 2007⁵¹⁹</td>
<td>22</td>
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<td>17</td>
<td>FF</td>
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<tr>
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<tr>
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<tr>
<td>Paulson 2001⁵²³</td>
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<td>25</td>
<td>SAT</td>
<td>–7</td>
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<td>In</td>
</tr>
</tbody>
</table>
and PsycINFO. EMBASE and AMED added only one additional study each and HMIC added no extra studies. Hand-searching and citation searching added three additional studies. Included studies came from 40 different journals (Table 8). The highest contributors were *Disability and Rehabilitation* (7), *Scandinavian Journal of Caring Sciences* (7), *Social Science & Medicine* (5) and *Qualitative Health Research* (5).

### Determining how studies are related

A glossary of all of the collaborative interpretations of each second-order construct is given in Appendix 3. These represent the raw data of our meta-ethnography.

Table 9 shows findings that were not included in the meta-ethnography because the team agreed that they were ‘untranslatable’. In other words, we felt that there was no central idea that pulled together the original findings. We did not attempt to reorganise these findings to include them in our analysis.
# RESULTS

**TABLE 3** Level of agreement between the two reviewers by method

<table>
<thead>
<tr>
<th>Appraisal tool questions</th>
<th>% agreement between reviewers 1 and 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CASP 1</td>
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<tr>
<td>CASP 6</td>
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<td>CASP 9</td>
<td>63</td>
</tr>
<tr>
<td>CASP 10</td>
<td>55</td>
</tr>
<tr>
<td>FF, SAT, KP ranking</td>
<td>62</td>
</tr>
<tr>
<td>JBI-QARI 1</td>
<td>50</td>
</tr>
<tr>
<td>JBI-QARI 2</td>
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</tr>
<tr>
<td>JBI-QARI 3</td>
<td>82</td>
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<tr>
<td>JBI-QARI 4</td>
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</tr>
<tr>
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<td>61</td>
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<td>JBI-QARI 7</td>
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</tr>
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<td>JBI-QARI 8</td>
<td>42</td>
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<td>JBI-QARI 9</td>
<td>66</td>
</tr>
<tr>
<td>JBI-QARI 10</td>
<td>60</td>
</tr>
<tr>
<td>JBI-QARI final decision</td>
<td>74</td>
</tr>
</tbody>
</table>

FF, fatally flawed; KP, key paper; SAT, satisfactory.

**TABLE 4** Median (range) scores for satisfactory, key and fatally flawed papers

<table>
<thead>
<tr>
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<th>FT</th>
<th>JA</th>
</tr>
</thead>
<tbody>
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<td>Fatally flawed</td>
<td>17 (12–19)</td>
<td>18 (14–19)</td>
</tr>
<tr>
<td>Satisfactory</td>
<td>22 (19–27)</td>
<td>22 (18–27)</td>
</tr>
<tr>
<td>Key paper</td>
<td>24 (20–28)</td>
<td>25 (22–27)</td>
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</tbody>
</table>
Translating studies into each other: developing the conceptual categories

This section describes the team’s final conceptual categories, illustrated by examples of second-order constructs. We have chosen particular second-order constructs to illustrate our conceptual categories in the same way that primary qualitative research studies use narratives as exemplars of concepts or themes. The second-order constructs supporting each conceptual category are presented in Appendix 4. These tables show the team memos describing each category. Table 10 shows an example of the team memos and second-order constructs supporting one conceptual category (‘alienated vs. integrated body’).

Fundamental to the patients’ experience of chronic MSK pain is a constant struggle: (1) struggle to affirm myself; (2) struggle to reconstruct myself in time; (3) struggle to construct an explanation for suffering; (4) struggle to negotiate the health-care system; and (5) struggle to prove legitimacy. The overriding theme of these categories is adversarial, giving a sense of being guilty until proven innocent. However, in spite of this constant struggle there is also a sense of (6) moving forward alongside my pain. We discuss differences in category descriptions for fibromyalgia and MSK studies throughout the following sections.

1. Struggling to affirm myself
The category ‘struggling to affirm myself’ describes a struggle to hold on to the ‘real self’, which is threatened by continuing pain. It incorporates three concepts: (a) alienated versus integrated body, (b) the ‘new me’ is not the ‘real me’ and (c) isolated not connected me.

1(a) Alienated versus integrated body
The alienated body describes how a person with chronic pain experiences a fragmentation of body and self. Chronic pain makes a person become aware of their body when before they were not. Body and self are no longer integrated, and the painful body becomes it, as opposed to me. Pain takes ownership of the body and is experienced as a malevolent presence.343 Crowe and colleagues323 describe this as the ‘externalisation of the body’, in which self and body come apart and the body becomes external to the self.

Second-order construct: Osborn and Smith 2006:343 living with body separate from self

Pain has made me aware of my body now. Separation of painful body from self. Self and body opposing entities. Painful part not me. Unpleasant and relentless presence of a body that is ‘not me’. Living with pain affects who I am [self]. New body alien. I feel powerless against an alien body. Dysfunctional part of body not me. Distinction made between the original self and that self which had emerged due to pain.
TABLE 6 Description of the MSK studies

<table>
<thead>
<tr>
<th>Study</th>
<th>Age range (years)</th>
<th>Source of participants</th>
<th>Condition</th>
<th>Country</th>
<th>n</th>
<th>Male, n</th>
<th>Data collection</th>
<th>Methodology*</th>
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<td>PMP</td>
<td>MSK</td>
<td>Switzerland</td>
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<td>3</td>
<td>Semistructured interviews</td>
<td>Thematic analysis</td>
</tr>
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<td>Afrill 2007</td>
<td>30–72</td>
<td>PC, PMP, pain clinic</td>
<td>MSK</td>
<td>Sweden</td>
<td>20</td>
<td>7</td>
<td>Semistructured interviews</td>
<td>Phenomenology</td>
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<td>MSK</td>
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TABLE 6 Description of the MSK studies (continued)

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<th>Source of participants</th>
<th>Condition</th>
<th>Country</th>
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<th>Data collection</th>
<th>Methodology</th>
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IPA, interpretive phenomenological analysis; NK, not known; PC, primary care; PMP, pain management programme; PT, physiotherapy; RCT, randomised controlled trial.

[^3]: We used the authors’ original descriptions to define methodology.
[^4]: More than one paper reporting the experience of the same group of people.
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<th>Source of participants</th>
<th>Condition</th>
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<td>Liedberg 2002&lt;sup&gt;312&lt;/sup&gt;</td>
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<td>Questionnaire survey</td>
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<td>Sweden</td>
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<td>30–63</td>
<td>PMP</td>
<td>FM</td>
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<tr>
<td>Madden 2006&lt;sup&gt;319&lt;/sup&gt;</td>
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<td>Mannerkorpi 1999&lt;sup&gt;340&lt;/sup&gt;</td>
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<tr>
<td>Mengshoel 2004&lt;sup&gt;311&lt;/sup&gt;</td>
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<td>Sweden</td>
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<td>14</td>
<td>Narrative interviews</td>
<td>Phenomenology</td>
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<tr>
<td>Raheim 2006&lt;sup&gt;318&lt;/sup&gt;</td>
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<td>FM</td>
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### TABLE 7 Description of the fibromyalgia studies (continued)

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<tr>
<th>Study</th>
<th>Age range (years)</th>
<th>Source of participants</th>
<th>Condition</th>
<th>Country</th>
<th>n</th>
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<th>Data collection</th>
<th>Methodology</th>
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<td>34–65</td>
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<td>FM</td>
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<td>37–59</td>
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<td>Undeland 2007(^{366})</td>
<td>42–67</td>
<td>FM group</td>
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<td>De Vries 2011(^{324})</td>
<td>31–60</td>
<td>Adverts and FM website</td>
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<td>Gullacksen 2004(^{377})</td>
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<td>FM and MSK</td>
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<td>Ethnography and focus groups</td>
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</table>

FM, fibromyalgia; PC, primary care; PMP, pain management programme; PT, physiotherapy.

a 'We used the authors’ original descriptions to define methodology.'

b More than one paper reporting the experience of the same group of people.
Paulson and colleagues describe the body in pain as ‘a reluctant body’ that is unresponsive to the demands of meaningful participation. This altered relationship with the body, if antagonistic, can make a person feel ‘homeless’ in his or her own body.

Second-order construct: Raheim 2006: theoretical interpretation – lived body

Participants describe dualism of body in pain with a distinction between self and body. No longer unconscious of the body but more aware of it, while paradoxically feeling ‘homeless in one’s own body’, and wanting to escape from it. Some do not report feelings of disintegration, but rather view the body in pain as a ‘problematic friend’ with which they can cope. Dialogue between self and body is either positive or negative: (a) impossible enemy – antagonistic (parasitic) dualism; homeless in body, (b) friendly dialogue – symbiotic dualism; at home in my body

Negotiating an unrelenting body

The category ‘unrelenting body’ is linked to the change in the way that the person experiences his or her own body. This category developed from the fibromyalgia studies. The unrelenting body overwhelms and drains a person’s resources. This concept includes second-order constructs that describe the tangible bodily presence of chronic pain and its wide-reaching effects. Chronic pain is physically ‘agonising’ and its impact goes beyond the physical body to become emotionally unrelenting. The concept describes the powerlessness of the person in pain against an unrelenting body.

Second-order construct: Lachapelle 2008: barriers to acceptance – unrelenting pain and fatigue

Unrelenting pain and fatigue – women drained of physical and emotional resources.

Second-order construct: Lempp 2009: change in health identity

Illness became increasingly intrusive in life and began to undermine their confidence and sense of self. Self-esteem undermined. Fear of not being able to rely on body and the unpredictability of the illness.

Integral to the unrelenting bodily experience of fibromyalgia pain is an engulfing and insurmountable fatigue.
Second-order construct: Sturge-Jacobs 2002:361 fatigue invisible foe

Fatigue engulfing, insurmountable and overwhelming, insidious, unseen and uncontrollable. Affects all aspects of life. Activities had to be avoided or prioritised. Fear of becoming a burden on friends and family (i.e. non-reciprocal relationships). Always receiving help and not giving.

Fibromyalgia studies also describe the cognitive effects of unrelenting pain, a ‘fibro-fog’. Living in this fog a person becomes forgetful, lacks motivation and finds it difficult to focus or to articulate his or her thoughts. 373

<table>
<thead>
<tr>
<th>Journal</th>
<th>Papers, n</th>
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<tbody>
<tr>
<td>1. American Academy of Pain Medicine</td>
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<td>2. Arthritis &amp; Rheumatism</td>
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<td>3. Australian Journal of Physiotherapy</td>
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<td>4. BMC Musculoskeletal Disorders</td>
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<td>5. British Journal of Health Psychology</td>
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<td>6. British Journal of Occupational Therapy</td>
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<td>7. Canadian Family Physician</td>
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<td>8. Clinical Nursing Research</td>
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<td>9. Disability and Rehabilitation</td>
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<td>10. European Journal of Pain</td>
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<td>11. Family Practice</td>
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<td>12. Health Care for Women International</td>
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<td>13. Holistic Nursing Practice</td>
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<td>15. International Journal of Psychiatry in Medicine</td>
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<td>25. Patient Education and Counseling</td>
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<td>Allegretti 2010</td>
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<td>Arnold 2008</td>
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<td>Crowe 2010</td>
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<td>Cunningham 2006</td>
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<td>De Souza 2011</td>
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</table>

**TABLE 9** ‘Untranslatable’ themes from the primary studies
Second-order construct: Sturge-Jacobs 2002\(^{361}\) thinking in a fog

Brain ‘in a fog’: unable to concentrate or think clearly. Difficulties with problem solving, abstract thinking, and the inability to make appropriate judgement calls or on-the-spot decisions were areas of concern for all participants. Mind and body ‘constantly at odds’. Sense of being in a dark place. Could affect ability to continue meaningful employment.

As we were surprised not to find this concept developed in the MSK papers, we searched for second-order constructs that supported this category in the MSK papers and found only three papers.\(^{331,358,368}\) In short, there was more focus on the experience of the body in pain in fibromyalgia studies.

1(b) ‘New me’ not the ‘real me’
This describes the discrepancy and ensuing struggle between a past ‘real me’ and a present ‘not real me’ with pain. A person in pain struggles to balance this deficit and to prevent the erosion of the real self. The new me is described as ‘not real’ and the old me as ‘real’. There is now a chasm between what other people think that I am (the new me in pain) and what I think I am (the past me). In this way Osborn and Smith\(^{342}\) describe how a person compares their self now with a past self. A person in pain looks back nostalgically to the ‘real me’ of the past.

Second-order construct: Osborn and Smith 1998\(^{342}\) comparing this self with other selves

Compared self with others and past/future self.

a. I am not like the old me who was fit and able to work hard. Some defined themselves as bereaved. Grieved for the old self. I am not my happy previous self – look back nostalgically. Painful reminder of loss. Past self considered to represent the real self replaced by new false persona. Pain denies me my right to be me.

b. Fear what future will bring. Feelings of uncertainty.

c. Constantly comparing to others and put emphasis on disability. Took refuge in thinking of those who were worse off, but this could make them think of a possibly worse future (also this does not compensate for my loss).

### TABLE 9 ‘Untranslatable’ themes from the primary studies (continued)

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<thead>
<tr>
<th>Study</th>
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<td>Treatment</td>
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<td>Teh 2009</td>
<td>Involved in quality of care</td>
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<tr>
<td>Walker 1999</td>
<td>Challenging the medical model</td>
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</tbody>
</table>

RESULTS
Second-order construct: Paulson 2002:346 being a different man – not being the same

No longer feel like a ‘whole man’. Had lived life at high tempo, cheerful, kind, offered help. Not the same – could no longer manage multiple activities due to failing strength and inability to concentrate (compounded by feelings of sorrow for lost abilities; isolation when not treated like others at work; irritability that affected relationships; and suicidal thoughts due to these). Anger often directed towards family. Over time came to accept and worry less what people felt.

This struggle to hold onto the old me is experienced as mourning and can be as distressing as the pain itself.

Second-order construct: Werner 2003:369 for better or worse – sorrow at loss

Negative effects due to the increased level of awareness which leads to sorrow at loss of aspects of self. An increased feeling of despair is caused by having to realise that you might never be restored to your former healthy state. Sorrow and bitterness at having to revise the picture of self.

It also describes a fight to keep hold of the old me and to appear normal; being changed by pain is interpreted as ‘giving in’.

Second-order construct: Lachapelle 2008:335 barriers to acceptance – fight to be normal

Mounting losses and fight to be normal – struggle to maintain pre-pain identity. Felt they had let the pain ‘win’. Struggled to maintain normalcy; ‘put on a play’, ‘cover it up’. Acceptance meant you had to take on changes and accept changed identity (sometimes felt guilty for this, e.g. gender roles).

Second-order construct: Harding 2005:330 spoiled identity

The reductions required by the chronic pain have an impact on sense of identity and cause people to perceive themselves as different from others. There is a tension between outward appearance remaining ‘normal’ and internal changed identities. Some felt that they had ‘given in’ to pain; others grudgingly accommodated the changes and lowered expectations.

However, although fighting to be my old self, at the same time I acknowledge that I am irreparably altered. Toye and Barker363 suggest that continuing to fight to be me and accepting my loss are not
mutually exclusive, and both concepts are upheld by strong cultural rhetoric that values both fighting and acceptance.

Second-order construct: Toye and Barker 2010:363 I am still me but not me

Paradox: a. You must learn to live with it [use of cultural rhetoric]; b. I am still me and I will fight to be [use of cultural rhetoric]. These are not mutually exclusive; can accept defeat but still fight on [lose battle; win war].

1(c) Isolated not connected me
This captures the changes in a person’s relationships with others (partners, family, friends, colleagues and community) and the impact of this on self. It describes the isolating effect of chronic pain and the battle to retain balanced reciprocal relationships. Former roles are entrenched in my ‘old self’, and my new self in pain challenges these roles. Pain can irreparably disconnect and isolate the person from others. However, there is also a sense that for some it is possible to move forward and redefine relationships more positively in spite of pain.

Second-order construct: Raheim 2006:348 theoretical interpretation – lived relations

Chronic pain alters the relationships we have and can either destroy (detached/dissociated relationship/destroy) or allow us to build new relationships (mutuality/reciprocal relationship/build up) as we redefine who we are.

Although help from family and friends is valued, this help can change the dynamic of the relationship, in particular towards dependency, and can therefore cause distress. Thus, pain can be the tipping point of some relationships. In some cases it can reinforce relationships by affirming who is important. Emotional support from friends is valued, but this is counterbalanced by concern over not overburdening others and creating a deficit in reciprocity. A person struggles to find a balance between having the benefits of support yet retaining independence. Change in family roles can undermine a person’s self-worth, resulting in feelings of guilt from being unable to meet the needs of family or work. There is also the sense that some find it possible to strengthen bonds in the face of a common enemy.

Second-order construct: De Souza 2011:376 spouses and partners

Help and support from spouse/partner valued but also caused feelings distress and helplessness. Strain on marital relationships due to both stress and reluctance to have a sexual relationship due to pain. Additional stress of chronic pain can be tipping point for weak relationship, but in other relationships there was closeness and support to deal with the pain together.

Second-order construct: Lachapelle 2008:335 facilitators to acceptance – perceived social support.

Emotional support from friends was counterbalanced by a concern over not overburdening. Limited by a lack of understanding on the part of supporters and fears the possible onset of supporter fatigue. Support groups ambiguous; some offered a safe haven whilst others perceived as discouraging and designed to force on participants a particular agenda. Professional counselling could help to mourn loss of old self and redefine new identity.

Isolation is exacerbated by a person’s attempts to appear normal to others and hide pain. However, striving for normalcy and attempting to meet the expectations of others can be a double-edged sword as people might not believe that a person has pain. The invisibility of pain discredits and others interpret complaints of pain as an excuse for non-participation in expected roles.
Second-order construct: Slade 2009:357 stigma – community, friends, family

Judgement extended to family, friends and community. People see back pain as an excuse for non-participation and poor performance. The invisibility of pain is a barrier to legitimacy.

Isolation is further exacerbated by the negative effect of pain on my emotions and desired personality. Anger and low mood is projected out to those around me and I am no longer feel that I am the person that I was. This can lead to the further breakdown of intimate, family, social and community relations.

Second-order construct: Walker 2006:368 loss – relationships

Irritability, need to be alone, loss of trust and disbelief, lead to breakdown of physical and emotional relationships with partners. Also became isolated from friends and work. Came to know who to trust and who true friends were. For older people, dependence might increase contact with the family.

2. Construction of time altered: unpredictable now and in the future

This concept describes an alteration in a person’s perceptions of their self through time: their plans, expectations and dreams for the future. In this way pain disrupts a person’s teleological construct, the perception that we move towards a purpose. In pain, both (a) the present and (b) the future become unpredictable, disrupting a sense of purpose.

2(a) Unpredictable now

The unpredictability of pain means that a person in pain cannot plan but lives in an endless timeless present; time shrinks to now. This concept describes the unpredictable nature of chronic pain and the need to be constantly vigilant of the body. Life becomes dominated by caution and spontaneity is lost. Mengshoel and Heggen describe this as ‘living life on a knife edge’ (p. 49). It becomes necessary to meticulously plan daily schedules to maintain participation in daily routines.

Second-order construct: Crowe 2010:323 need for vigilance

Because it is unpredictable you need to be constantly vigilant about what you were doing and how you move. People became cautious to attempt things they had always taken for granted. Related to body differently; loss of spontaneity even for previously routine activities.

Second-order construct: Snelgrove 2009:358 crucial nature of pain – loss of spontaneity

Loss of ability to do even most mundane and taken for granted activities of daily living. Loss of spontaneity; need to plan everything I do.

Second-order construct: Paulson 2002:346 body as obstruction – living day by day

Fluctuations in pain mean you have to live by the moment, not plan for future. Need to live life at your own speed so you can maintain participation.

2(b) Unpredictable future

This describes the change in a person’s expected timeline: things are not going to be how I thought they would be; my purpose is altered. On balance, the future is interpreted as bleak, and people with chronic pain anticipate both progression of symptoms and further dependence. Osborn and Smith describe how a person in pain compares themself now with a future perceived self and fears what the future might bring. The sense of certainty for the future rooted in a past ‘real self’ had diminished. This brings anxiety about what the future holds.

*Turmoil, chaos, turbulence. Patient wrestles powerful emotions of uncertainty about the future, fears of potential worsening of illness, and feelings of vulnerability and helplessness. Inability to make plans; need to live each day as it comes; not knowing what the future holds; fear of getting worse. Like Frank’s chaos narrative – ‘being shipwrecked by the storm of disease’. Describe life as imprisoned by pain with no knowledge of release.*

Second-order construct: Coole 2010: concerns about future at work

*Perceived condition as progressive and had concerns about maintaining work or life quality after work. May be unable to enjoy leisure or retirement. Also considered effect of ageing on ongoing pain.*

Although the person’s construction of a future self has been altered by pain, there is an expressed need to keep hopeful in the face of adversity; a struggle between hopelessness and hope. Lachapelle and colleagues describes how acceptance of loss is not incompatible with retaining hope for the future. Madden and Sim suggests that some degree of clinical uncertainty may allow a person to hold onto some hope when no cure has been found.

Second-order construct: Lachapelle 2008: meaning of acceptance

*Meaning of acceptance ambiguous; implies giving in/resignation. Patients preferred ‘dealing with, managing, coming to terms with, embracing’. Means pursuing life activities in spite of pain [activity engagement]. I am willing to engage rather than avoid. Hope for improvement in pain and symptoms not incompatible with acceptance of current state. Retained hope for reduced pain at the same time as accepting chronicity of pain and that there was no cure for pain [acceptance begins with giving up hope of cure].*  

3. Struggling to construct an explanation for suffering

This describes the fundamental need to find an acceptable explanation for suffering. It incorporates three related concepts:

(a) alienated from the dominant medical discourse
(b) no one believes me
(c) seeking alternative explanations.

3(a) Alienated from the dominant medical discourse

This describes the cultural (thus rhetorical) power of the biomedical model, which has the power to give or take credibility. The biomedical model takes disease to be an objective biomedical category that can be accounted for by a specific aetiology, a category that is not influenced by psychosocial factors, or judgements about moral worthiness. The medical model of illness also implies an illness trajectory in which, following diagnosis and treatment, a person’s health is restored. It demonstrates the persisting polarity inherent in the biomedical model (real/unreal, physical/mental, medical/psychological, body/mind). The person in pain needs to attribute a biomedical cause to experience it as legitimate. People describe how they have failed the medical test and find themselves between and between, being neither credibly ‘ill’ nor symptomatically ‘well’. Paradoxically, although a person does not want to be ill, a medical diagnosis is necessary to validate their experience. Rhodes and colleagues describe the experience of pain as either ‘aligned’ or ‘alienated’ from the medical model. Thus, although a person is certain of their experience of pain, they have no proof and the experience becomes invalid. Existing outside the dominant discourse can sometimes mean that they begin to doubt the reality of their own pain.
Second-order construct: Rhodes 1999:350 aligned or alienated

Aligned – tests fit the anatomical model. For some patients diagnostic tests produce ‘results’ (‘black and white’ X-rays, tests) for which the visual image corresponds exactly with their experience of pain. Tests seem so positively transparent and simplistic – give proof. Deviation should show up and be susceptible to repair.

Alienated – don’t fit – guilty, disillusioned. Other patients found a discrepancy between their own ‘inner’ experience of pain and the diagnosis and needed to legitimise what they felt. This can lead to feelings of guilt, disillusionment with medicine, doubts about the tests and frustration. I am certain (I think) but I have no proof.

Second-order construct: Slade 2009:357 stigma – pathology-driven validation

Medical validation valued for credibility. Lack of this a barrier to participation that is physiologically, psychologically and socially disabling. Patients felt validity of illness in question as imaging tests revealed no cause/evidence of pain. Expressed relief or an easier pathway when an X-ray or MRI demonstrated pathology. Compounded by misdiagnosis or change in imaging findings. Feel need to legitimise self as not ‘mad’ or ‘bad’.

Second-order construct: Campbell 2007:315 unmet expectations

Patients expect an explanation, diagnosis, treatment and cure but this is not forthcoming. Leads to frustration and anger at impotence of medical system. Feel that they are not believed because of invisibility of pain; seek to make invisible visible in order to legitimise pain. They have failed a medical test. Anger and frustration at the perceived ineptitude of the medical profession was evident. Leads to engendering personal remedies.

Fibromyalgia: an ambiguous diagnosis

Patients with fibromyalgia also experience alienation from the biomedical model in spite of having a diagnosis. At first the diagnosis of fibromyalgia is experienced as a relief and can provide a springboard to living alongside the pain. Diagnosis shows them that they do not have a fatal illness, and also legitimises their experiences. However, over time the diagnosis can become a burden; they come to realise that, rather than identifying a specific organic pathology, fibromyalgia describes a spectrum of symptoms. This model of diagnosis does not fit the medical model, which requires a specific aetiology.

Second-order construct: Undeland 2007:366 relief of name but diagnosis becomes a burden

Relief at diagnosis followed by conflict (what is the cause, no cure, fear of stigma, meant inevitable disability, disbelief by others, or not taken seriously, ‘just a bit of fibromyalgia’). Diagnosis brought no understanding or appreciation. Despair and sorrow when they realised the impact of fibromyalgia on their lives. This process was lonely. Some people expected improvement after diagnosis and it was difficult for the women to explain the lack of progress. Some women remarked that their doctors felt that fibromyalgia was just a word associated with hysterical women. This turmoil leads some to continue to search for a diagnosis.

Second-order construct: Mengshoel 2004:341 ambivalence about diagnosis

Patients still want a biomedical diagnosis and are unhappy to have a diagnosis based on subjective criteria. Diagnosis of fibromyalgia a relief (as not a fatal disease) as well as a burden (not rooted in treatable biological signs and viewed with scepticism).
Second-order construct: Madden 2006:339 discovering a disease – fibromyalgia an empty diagnosis

Participants felt that they had received an empty diagnosis; difficult to explain to others as not really understood by patient.

The uncertainty of having no diagnosis is replaced by a new kind of uncertainty as fibromyalgia is regarded by others with varying levels of scepticism. The diagnosis of fibromyalgia can also come to gain ‘master status’ whereby every bodily symptom is explained away by fibromyalgia and is not taken seriously by others.

Second-order construct: Madden 2006:339 seeking answers – biomedical ambiguity

Fibromyalgia symptoms wide ranging and ambiguous; difficulty of locating specific symptoms with the illness. This led to confusion over definition of diagnosis; feeling that no one really knows what it is. ‘The diagnosis is seemingly adapted to suit the presentation of the illness, rather than the illness fitting within a predefined diagnostic framework’

p. 2971

3(b) No one believes me

This concept describes the experience of the discredited person standing outside the dominant biomedical model. This cultural model seeks tangible, physical evidence. If nobody can see pain, and there is no legitimising medical diagnosis, credibility is lost.

Second-order construct: Holloway 2007:379 stigma in everyday life

Patients felt stigmatised socially for having an invisible illness; people don’t believe that there is anything wrong at all. Provoked by media reports of benefit fraud.

Second-order construct: Lachapelle 2008:335 barriers to acceptance – support and belief of others

Lack of support and belief from others a barrier to acceptance. It was important to have a concrete diagnosis to feel legitimate and get support from others. friends, colleagues and families began to treat them the same as the health-care professionals did. Delays in diagnosis damaging to fibromyalgia women’s social (support) networks.

As a result of residing outside the dominant model, the person experiences overwhelming doubt from people around them. This doubt permeates a person’s experiences at work, in their social life, in health care and among family, altering the fabric of experience. At times a person can come to doubt their own experiences.363,370,371

Second-order construct: Osborn and Smith 1998:342 not being believed

No visible sign of suffering. Uncertainty about pain made them vulnerable to judgements of those around them. Continual need to justify self. It is real; I am not mad or bad. Faced threat of rejection even by nearest and dearest. Pain has caused a shift in familial reciprocal roles. I am a burden but also people don’t believe me. Lack of credible evidence made them feel guilty of the burden they were placing on their families. Uncomfortable about not being able to reciprocate but becoming the one that is cared for. Appearing too healthy or mobile threatened credibility. Forced to appear ill but this meant bearing burden of not being seen as self by others (e.g. I’m not a cripple). Denied opportunity to relate to others in a world free of the influence of pain.
Second-order construct: Slade 2009:357 stigma – community, friends, family

Judgement extended to family, friends and community. People see back pain as an excuse for non-participation and poor performance. The invisibility of pain is a barrier to legitimacy.

Soderberg and colleagues359 describe the discrediting experience as a threat to human dignity. It threatens a fundamental quality of life, which involves being recognised as a credible human being.

Second-order construct: Soderberg 1999:359 threat to integrity – credibility and invisibility

Lack of belief from others; not taken seriously; others felt it imaginary or psychological. Naming the illness meant that it existed. If you don’t look sick you are not sick. Diagnosis and participation in research increased credibility. Felt lucky to be believed. Lack of belief and a threat to their human dignity, thus depriving opportunity to be a whole human being. Engagement implies ‘fraternity’, i.e. treat someone like your brother.

3(c) In Striving for an alternative acceptable explanation

This describes a tenacious approach towards finding an explanation for pain in the absence of a medical diagnosis. It illustrates that those in pain do not necessarily subscribe uniquely to medical interpretations, and are open to alternatives. For example, they may consider that age, certain activities, life events, emotional turmoil or genetic predisposition may all contribute to a person’s pain. It describes an active struggle to find an explanation for suffering and to search for an alternative remedy if a medical explanation is not achievable.


To be stricken with illness without understanding why is the classic dilemma of Job. An explanation does more than identify biological process. Explanation and understanding give relief. Diagnosis positive because you know the illness is not grave. Also makes unbelievable acceptable. Also makes it easier to accept and know you are not alone. Understanding through experience gives relief. An explanation can contribute to living a life of dignity

Second-order construct: Harding 2005:330 making sense of pain

Tried to make sense of the cause of pain by locating it in the context of their lives (e.g. cancer, bereavement, diabetes, etc.). Used diverse explanations to explain their pain. Doctors were perceived as not helping them make sense of their pain but only providing a medical interpretation for it. For most, there was a consistent tendency to not wholly subscribe to the medical interpretation.

Second-order construct: Dickson 2003:325 reconstructing meaning of pain – managing and tolerating

Continued to seek out traditional means to manage their symptoms, alongside search for cure. Shift from pain being symptom of disease to being part of ageing [positive view of aging in Korean culture]. Women gained control over their pain and began to interpret their experience as part of growing older.

Alternative explanations may help a person to come to terms with pain. Dickson and Kim325 describe how some Korean women with osteoarthritis found it helpful to shift from a medical interpretation to an interpretation that explained symptoms as the normal result of ageing. Toye and Barker365 suggest that there may be a link between recovery and successfully constructing an acceptable explanatory model for pain.
Second-order construct: Mengshoel 2004: a new interpretation

Come to understand that diagnosis fibromyalgia had its limits and only a label for pain in muscles. No longer preoccupied with seeking biomedical explanation. They talked about strategies to end the pain which involved listening to their body and take things slowly when needed. Realise there is a close link with pain and life events. Cause of symptoms sought in everyday life. They described living life on a knife edge and they need to take precautions to stay healthy. Learned to slow down and assess situation to avoid relapse. New strategy of analysing life events.

Second-order construct: Toye and Barker 2012: restoring hope – constructing an acceptable explanatory model

Successful patients had accepted a link between mind and body and embraced psychological interventions. However, physical explanations were still important, and they constructed a model, which saw the body as out of balance rather than broken, thus being able to retain legitimacy in spite of having no diagnosis. Unsuccessful patients held onto medical model.

4. Struggling to negotiate the health-care system

This category describes the person’s struggle to negotiate the health-care system when they have chronic MSK pain. It includes two categories: (a) the ambivalent relationship with the health-care system and (b) value me as a person, don’t just treat my body.

4(a) Ambivalent relationship with the health-care system

This describes the person’s ambivalent relationship with the health-care system. Although reticent to engage with a system that is failing their needs, at the same time they feel compelled to engage. There remains a continuing faith in a system that is failing. Although this faith is tested, the person retains hope for a future cure. There is also a sense of being ‘trapped in the system’.

Second-order construct: Campbell 2007: back to square one

Feel entrapped in a medical system where GP is gatekeeper to other treatments. Reticent to re-engage with a system that previously had little to offer, but things may have moved on now. Feel that a cure (for something so simple) is now possible and should be made available. Tenacity rather than acquiescence evident (versus Illich).

Second-order construct: Walker 1999: being in the system – losing faith

Felt health-care professionals had given up on finding a diagnosis and cure, and blamed the patient for their own condition. Patients lost faith in doctors who did not understand their world.

This relationship with health care is described as tenacious not acquiescent, with a feeling that the individual has a personal responsibility to do something for their pain. However, despite this, the person remains at the mercy of the system. Attempts to understand their suffering are continually thwarted as the person continues to be referred on to yet another health professional ‘like a shuttlecock’. Some start to doubt the existence of an expert, or that anything can actually be done. This can lead to anger at the impotence of the system.

Second-order construct: Harding 2005: unmet expectations

A person needs their doctors to bear witness to their pain experience. This has a profound effect on their functioning as individuals. Expectations of medical system are not met. Loss of faith in medical system due to GPs’ inability to diagnose and treat; their lack of time to listen and understand patient condition; disbelief of patient descriptions and lack of concern; not being taken seriously.
Could receive a range of different sometimes contradictory opinions from medical professionals as to the cause pain and way to treat it. Search for an alternative remedy is taken up.

Second-order construct: Walker 1999:367 being in the system – waiting

Feeling like a ‘shuttlecock’ long periods of waiting and being sent back and forth for non-productive treatments. All patients felt too much time wasted waiting in vain for ‘productive’ assistance in the medical system.

This ambivalent relationship towards the health-care system is less evident in fibromyalgia studies, in which the concept describes doctors’ reluctance to use the diagnosis of fibromyalgia or being uncertain about effective treatment options.


Patients search for a diagnosis impeded by GPs reluctance to use a diagnosis of fibromyalgia. Patients saw doctors hoping for relief and explanations but had difficulty explaining their symptoms. Several participants described doctors who were hesitant or dismissive, claiming fibromyalgia was a fashion tag.

**Medication: demonstrating the ambivalent relationship to health care**

The experience of medication illustrates the ambivalent relationship to health care. It is described as treating the symptoms of pain rather than curing it, and therefore as not fitting the expectations of the medical model. Patients describe medication as a means of being kept quiet by medical professionals who are uncertain of what else to do for them.

Second-order construct: Liddle 2007:336 treatment received

Disappointment at unmet expectations of treatment. Frustration at inability of medical system to relieve pain, and diversity of attempts to resolve the problem. GPs over-emphasised use of medication. Participants were concerned that this was treating the symptom without addressing the source of their condition.

However, although people are concerned about the side effects of medication they continue to take it, but describe how they will alter their prescribed doses and use supplements without consulting their doctor. This illustrates the proactive rather than acquiescent approach to health care.

Second-order construct: Teh 2009:362 participation in pain treatment – working outside health-care professional relationship

Patients sometimes changed pain medications without consulting health-care professional, due to dislike of pain medications and fear of reliance on these. Working on own to manage pain – change own medication, taking supplements or exploring alternative remedies. Patients resourceful in accessing alternative health strategies.

Second-order construct: Lempp 2009:381 quality of care – interventions

Ambivalence to medication; concern over dependence and that it might mask symptoms but not ‘cure’ the disease. Drugs ineffective for pain relief and most ‘followed their own intuition rather than medical advice.’ Physiotherapy whilst positive for some, on the whole brought up negative memories. Many tried alternative medicine/therapy, again with little relief apart from use of heat.
4(b) Value me as a person, don’t just treat my body
This category describes the experience of not feeling valued as a person by the health-care professional. It describes a fundamental need to feel cared for; to be listened to, valued, heard and believed. It describes a person’s need for their health-care professional to believe and bear witness to their suffering, particularly as credibility is threatened by the invisibility of pain. There is a paradox inherent in this experience of health care: I want my physical body to be treated, but at same time I need to be valued as integrated body–self. This need is described as central to the therapeutic relationship, not as an adjunct.

Second-order construct: Teh 2009:362 importance of relationship with health-care professional

Relationship with health-care professional valued: being understood, seeing them as a person, being remembered and continuity of care means feel known, safe, legitimate. Being unknown, not heard or understood means isolation and de-legitimacy.

Second-order construct: Harding 2005:330 unmet expectations

A person needs their doctors to bear witness to their pain experience. This has a profound effect on their functioning as individuals. Expectations of medical system are not met. Loss of faith in medical system due to GPs’ inability to diagnose and treat; their lack of time to listen and understand patient condition; disbelief of patient descriptions and lack of concern; not being taken seriously. Could receive a range of different sometimes contradictory opinions from medical professionals as to the cause pain and way to treat it. Search for an alternative remedy is taken up.

Osborn and Smith344 illustrate the benefits of therapeutic alliance and the importance of having a health-care professional sharing the experience.

Second-order construct: Osborn and Smith 2008:344 containing fear through social connection

Pain remained unchanged as an object of thought but they felt better able to manage the fear it evoked. Their pain possessed the same meanings and was no different in its threatening potential and unpleasantness: Each participant felt more able to manage his or her pain, They reported an increase in the degree of self-confidence they felt in the face of their on-going pain and a reduction in the level of fear and worry. Therapeutic alliance eased sense of isolation, vulnerability, and fear. Someone else is part of the experience.

Slade and colleagues356 describe how patients valued a therapeutic alliance based on mutual information and enquiry. They wanted to be informed and consulted about care decisions: I am a person so tell me what you are doing.


All participants expressed the need for mutual enquiry, problem-solving, negotiation and re-negotiation between care-provider and care-seeker to establish mutual therapeutic goals’. Patients wanting to feel that their opinions are sought and considered through every part of their care pathway.

5. Struggling to prove legitimacy
This category focuses on the adversarial and contested quality of the chronic pain experience, which may distinguish it from other types of bodily pain. It incorporates the shame and stigma of not fitting the dominant medical narrative and describes the way that people struggle to prove to others that they are credible. The category incorporates the performative dimension of pain: (a) struggling to find the right balance between hiding or showing pain, between appearing ‘sick’ or ‘well’ and (b) struggling to prove that I am a ‘good’ and valued person.
5(a) Struggling to find the right balance: do I hide or show my pain; am I sick or well?
The absence of a medical diagnosis means that a person must attempt to perform their credibility to others. This concept describes the struggle to find the right balance between hiding and showing pain to others. It describes an etiquette, or ‘right way’, of performing pain. If I appear too sick or not sick enough then others don’t believe me.

Second-order construct: Toye and Barker 2010:66 mustn’t look too ill

Face the paradox – Patients had to negotiate a balance between not looking ‘too ill’ and yet looking ill enough, and resolved this by hiding their illness even from those close to them.

a. Consistency or persistence of pain behaviour an important dimension of judging whether or not someone was genuine.

b. but don’t look too ill or people won’t believe you. There is a ‘right way to be in pain’.

There is a strong pull to hide pain from others and to appear ‘normal’. This pull is increased by a sense of shame and stigma at having medically unexplained pain.66 Although there is a sense that I want others to know that I have pain, there is also a sense that I don’t want to appear as if I am unable to cope or that I am not my old self.

Second-order construct: Skuladottir 2011:355 quest for normalcy – avoid sick role and maintain dignity

Took trouble to maintain appearance which meant that some did not realise or understand how they felt. Some tried to hide pain or conceal that there was anything wrong. Wanted to appear normal and maintain a sense of dignity. Felt this was respectable and made them more like ‘normal’ people. If you look too good it doesn’t look like you are suffering.

Second-order construct: Paulson 2002:347 not being a whiner

Most of the men seemed to have remained with pain until a point of (near) collapse before seeking medical help (often persuaded by their partner) as they did not wish to appear as whiners. Even when sick leave was recommended by physician and allowed by employer the men insisted on getting back to work as soon as possible. Were aware of lack of credibility of fibromyalgia and were reluctant to divulge all symptoms or anxiety there were causing.

Second-order construct: Smith and Osborn 2007:66 public arena makes it worse

Social isolation appealing as less pressure to hide ‘miserable self’. Patients felt reduced to ‘a bit of a person’ as unable to fulfil (familial) roles to their ideal standards; felt vulnerable to ridicule or punishment from others; and felt perceived as a ‘burden’ and without ‘value’ by society.

Sense of shame.

Paradoxically, the performative dimension of pain, which incorporates striving for normal participation and hiding pain, can further threaten a person’s credibility, particularly in the absence of medical proof. A person with chronic pain faces the continuing dilemma: do I struggle to participate as I used to (thus being ‘well’) or remain exempt from participation (thus being ‘sick’). If I am not altered, then am I actually ill at all?

Invisibility of symptoms damaging to one’s reputation as it evoked disbelief on the part of others. Being at home could increase expectations about household duties. At the same time, if she managed this, then neighbours were suspicious – why can’t she work! Can affect a woman’s very sense of being a capable woman (wife, mother, sexual partner). Uncertain about how to deal with limitations imposed by illness on work capacity, especially as many patients felt that going out to work improved their image socially despite their perpetual struggle with the physical pain.

5(b) Struggling to prove that I am a ‘good’ and valuable person
This describes how a person with chronic pain strives to present a picture of themselves as a ‘good’ person who is not culpable for their condition. Narratives often appeal to the ‘real me’ before pain; I am not really like this. Narratives of a previous life are used to emphasise the ‘good me’. Bury393 describes this as performing ‘moral narratives’. These narratives are less evident in the fibromyalgia second-order constructs and this fits with the view that they become more important when a medical diagnosis is absent.

Second-order construct: Snelgrove 2009:358 maintaining integrity – cause of pain

Explanation for pain physical not psychological; often described as caused when doing something virtuous. Patients explanations couched in a previously virtuous life and they are therefore blameless.

Second-order construct: Werner 2004:371 some people pour out their troubles

Narrative of strength. Important to be strong and fighter not weak and complaining. On the one hand I am like those other women (because I have pain) but I am different (not one of those whingers). I am strong. I have a positive attitude, I don’t whine, I am never sick, I don’t go to the doctors. Women work to appear credible and distance themselves from ‘the others’. I am not to blame.

Part of this struggle to prove that I am a good and valuable person involves a comparison with other people. Although being amongst other people with pain can legitimise experience (I am not the only one who has it), people take care to emphasise the ‘good’ qualities that are unique.

Second-order construct: Toye and Barker 2010:363 I am not like the others

Paradox.

Meeting others with pain confirmed legitimacy.

But I am not like the others. Patients were ambivalent in their relationships with other patients, and also stressed how they were ‘not like them’.

Social comparison and moral narrative used to rank self and confirm legitimacy.

Struggling to negotiate the workplace: demonstrating the adversarial experience of chronic pain
This section provides an example of the adversarial experience of chronic MSK pain as the person with chronic pain struggles to negotiate their position at work. We categorised second-order constructs related to work experience as:

1. struggle to affirm my ‘working’ self
2. hostility at work isolating
3. unpredictability of symptoms and the need for flexible work
4. battling the system to stay in work (benefits and health care).

(i) Struggle to affirm myself as a ‘good worker’ This describes the losses to self that accompany changes in work role. Work is described as adding value to self; it can be a place where a person feels respected and valued. There is a sense that work makes us what we are.

Second-order construct: de Vries 2011:324 motivators for staying at work – work as value

Work gave recognition, approval, self-realisation and self-respect. Work gives status and offers opportunity to be valued by peers. Work provides a mission to life. Gave link to society and value to life. Work is the ‘normal’ thing to do.

Second-order construct: Liedberg 2002:382 values and norms – meaning of work

Work valued by respondents as it made them feel useful members of society, appreciated by others and able to socialise. Many mourned over their lost professional identity [you are what you do at work]. Experience great loss of work role and social contacts that go with it.

Employees were therefore concerned not to be seen as ‘bad workers’ or as letting everyone else down at work. This meant that some people left work, worked through pain or took annual leave rather than be off sick.

Second-order construct: Patel 2007:345 perceptions at work – fear of letting employer down

Letting people down was expressed in terms of a threat to the patient’s own self-image as a worker: Some left work voluntarily for fear of letting employers down or not being seen as a good worker.

Second-order construct: de Vries 2011:324 motivators for staying at work – work as responsibility

A few perceived their work role as indispensable and that others relied on them. Therefore felt their absence impacted on work productivity as they could not be substituted, therefore worked through pain to meet work responsibilities and to not place a burden on their colleagues.

Loss of work was associated with feelings of personal betrayal if employers did not support them. Whereas they had felt that they were integral to the workplace before their pain, they now felt that they were easily dispensable, as if they were being ‘treated like a number’. They feared that employers saw them as too risky to keep on.


Sense of loss related to work exacerbated by lack of understanding from employers, particularly if employment had been longstanding. Felt a sense of betrayal by employer as pressure felt to leave work. Feel like they are treated ‘just like a number’ even when work had been valued prior to pain. Patients went to great lengths to find employment and often hid back pain from their employers (e.g. by taking holiday instead of sick leave). Guilt and resentment at losing/not finding suitable employment.

Second-order construct: Patel 2007:345 perceptions at work – employers’ limited understanding

Employer support and understanding limited due to a lack of awareness, negative perceptions (that the ill person will frequently be off work) and, perhaps, lack of personal experience. Patients feel that use of walking aids may make their case appear more plausible to employers; however, employers may also see such persons as more ‘risky’ to employ.
(ii) Hostility at work isolating For those who managed to stay in work, relationships with colleagues could become hostile. They did not feel understood by others and worried about gaining a reputation for being ‘work-shy’. This feeling was exacerbated by a culture of judgement regarding pain.

Second-order construct: Holloway 2007:379 stigma at work

All described struggle to stay at work and stories of unsympathetic encounters with colleagues who could be hostile. This created an environment of mistrust. Media reports of back pain being do not help.

Second-order construct: Slade 2009:357 stigma – workplace

Many felt responsible for back injuries despite poor workplace policies. This guilt compounded by judgements by colleagues. Culture of judgement exacerbated by compensable bodies. Reputation for being ‘workshy’ despite attempts to stay in work.

(iii) Unpredictability of symptoms and the need for flexible work The unpredictability of symptoms and fear of symptom progression made people feel that they could not continue at work. This was exacerbated by the fear that employers no longer valued them.

Second-order construct: Coole 2010:319 difficulty coping with flare-ups

Uncertainty at the unpredictable nature of their pain which made them unable to work at times. Effect on consistency of ability to work. Loss of confidence. Concerned that employers would not tolerate this unpredictability.

Second-order construct: Patel 2007:345 uncertainty – pain and health

The unpredictability of the severity of pain and limitation, and the duration of a flare-up made it very difficult for patients to foresee how they would cope with returning to and remaining in work: inability to cope with fluctuating nature of pain makes return to work less possible (as flexible working patterns not very common). Disadvantage in competitive working market.

They struggled to balance work commitments with other essential roles, as well as leisure and social activities. Work took its toll. Some were forced out of work because they found it impossible to find this balance. This could mean periods of time in and out of work.

Second-order construct: Sallinen 2010:351 being in-between

Refers to the process of moving back and forth between full work ability and work disability.

a. working in poor health and exceeding capacity

b. forced out of work into long term sick yet access to benefits denied = stress and financial difficulties.

Second-order construct: de Vries 2011:324 consequences of staying at work

Patients generally felt staying in work had many benefits. Dis-benefits included reduced opportunities for a social life and to pursue hobbies. Diminished capacity for leisure and pleasurable activities; increased pain and fatigue.
Although it was possible to maintain this balance with some flexibility in working arrangements, this flexibility was not generally forthcoming and there was a limit to the support that they could expect from colleagues.

Second-order construct: Coole 2010: employers’ help depends on managers

Some received help from managers and colleagues to adjust their work so they could maintain reciprocal working. Short term flexibility allowed them to feel valued at work. If work was reduced indefinitely then they felt a burden that they were not part of team and that colleagues would not support them indefinitely. Exacerbated by lack of belief and cuts to workforce.

Second-order construct: de Vries 2011: success factors (work) – adjustment latitude

Involves a range of crucial adaptation strategies around prioritising work, being flexible in execution of tasks (e.g. using a mobile phone that allowed one to not be confined to a desk), adapting ways of working with colleagues (delegation of tasks and accepting assistance) and working in partnership with families (i.e. accepting support as may be necessary). Not everyone at work experiences this latitude at work.

(iv) Battling the system to stay in work  This category illustrates the adversarial nature of chronic pain in relation to work and benefits and was described only in MSK studies. It includes two subcategories: battling for benefits and a health-care system that does not facilitate return to work.

Battling for benefits The person with chronic pain struggles to prove that they are sick in order to gain access to benefits.

Second-order construct: Holloway 2007: stigmatisation in health-care systems

Often disbelieved by health professionals and told pain was ‘all in the head’. This has an impact on benefits and compensation as patients perceived as malingerers.

Second-order construct: Walker 1999: being in the system – your life is not your own

Deservingness of benefits payment out of the hands of patients, resting solely on the opinion of medical professionals/benefits officers.

Leaving benefits is seen as risky because it is so hard to access them in the first place.

Second-order construct: Walker 1999: being in the system – battling for benefits

Forced to stay IN benefit system; no perceived advantage of coming out of it, although DID want to work. This concept underscores the challenges generated by the state.


Patients not only perceive leaving benefits as risky but also returning back to benefits as time consuming and bureaucratic. Feared leaving benefits but saw employment as making them better off. Return to benefits within 1 year of coping unsuccessfully with work (government initiative) perceived as daunting and as not offering financial stability.

This is exacerbated by a sense that benefits officers lack the skills and understanding to help them get back to the right job, or that they were stuck in a low-income job with no opportunity for retraining.
Results

Second-order construct: Patel 2007:345 benefits organisation – (limited)

Limited support on advice from benefits officer about return to work. Felt jobs offered were inappropriate to their condition.


High-level skills could be a barrier for return to work as applicants did not want to be trapped in a job that was not commensurate with their level of training. Those with low-level skills thought lack of training was also a barrier to return to work.

Although there are benefits from gaining access to certification of sick leave (e.g. it legitimises pain), this can be a double-edged sword. For example, it may affect access to future employment and opportunities, or alienate a person from work colleagues. It also may force a person to enter the health-care system to seek the legitimisation of diagnosis.

Second-order construct: Coole 2010:319 concern about sickness record

Concerns that sick leave perceived negatively and had an impact on employment record and job security. Use holiday leave rather than sick leave. Paradox – only seen as legitimate if they have a sick note, not self-certified – damned if I do and damned if I don’t! i.e. need sick record to be legitimate but don’t want a sick record.

Second-order construct: Walker 1999:367 being in the system – damned if you do and damned if you don’t

Compensation claims could alienate you from colleagues at work OR force you to seek medical diagnosis and treatment. Negative consequences of applying for compensation and apportioning blame. This describes being alienated because of legal process but if you don’t then you won’t get compensation [note – Marx; system covertly suppresses claims for what you deserve].

Health-care system does not facilitate return to work

This describes the negative impact of the health-care system and occupational health services on return to work. It describes the lack of dialogue between employers, occupational health and health services.

Second-order construct: Coole 2010:318 no employment help from GP – lack of dialogue between GPs, health-care professionals and employers

Any joined up dialogue and action missing. This need is therefore undertaken by the patient who then worries whether his explanations will be accepted as valid by the employer.

Second-order construct: Coole 2010:318 no employment help from GP – GPs write sick notes

GPs wrote sick notes rather than suggesting modifications to work duties. Most of the advice about returning to work did not follow the occupational guidelines and many either did not return to work or had to request additional information on their certificates to permit them adjusted work duties. Some patients felt they simply had to comply with what the GP said. Others signed off work while awaiting tests and results

Contact with health-care professionals was not experienced as facilitating a graded return to work. Patients are told to ‘take care’ or avoid certain tasks, or may be issued sick notes whilst they wait for test results, thus becoming trapped in the system of medical consultation.
Second-order construct: Coole 2010:318 no employment help from GP – clinicians increase concerns

Advice from health-care practitioners often negative. Warnings linked harm to duties at work and increased concerns about staying in work; ‘be careful’; ‘take it steady’. Did not contact employers or advise on temporary modifications.

Second-order construct: Patel 2007:345 health-care barriers

Trapped in a cycle of repeated consultations that stopped return to work. Long waits and not being taken seriously by health-care professionals exacerbated this. Some had been classified unsuitable to work by benefits medical officers. This assessment for work eligibility became a deterrent to taking on rehab to return to work.

6. Moving forward alongside my pain

Despite the constant struggle to appear credible, studies also reveal that some people with chronic MSK pain find ways of moving forward alongside their pain. This section presents categories that are described by people who are moving forward with pain. These categories describe a more positive existence alongside chronic pain:

(a) listening to and integrating my painful body
(b) redefining normal and focusing less on loss
(c) being part of a community of other people with pain
(d) being open about my pain
(e) realising that there is no cure
(f) becoming expert through experimentation.

6(a) Listening to and integrating my painful body

This describes a new relationship of trust and co-operation with the body. The alienated body becomes integrated by listening to and respecting it. It becomes a speaking partner and teacher. The person in pain is no longer at mercy of the body but a co-expert.

Second-order construct: Dragesund 2008:326 associations about the body

Body a limitation AND a possibility for some; unpredictable body limits opportunities – body has an existence of its own. Become more present in the body. New opportunities for participation connected to an increased ability to prevent pain from dominating. Not about controlling body but listening to it. No longer at mercy of the body.


Pro-active decision to make adaptations. Integrating the aching body takes a trusting and hopeful co-operation between self and body. The subject learns from the body and finds a new relation to his or her body in the same process. the body is looked upon as a speaking partner and a teacher. In this interplay, the subjects have grown as individuals and have begun to look at their future with optimism, although they know it will require great effort.

A person learns to balance his or her personal resources through co-operation with the body.

Second-order construct: Dragesund 2008:326 aware of body

Greater sensitivity to body and symptoms; different to previous pain free experience of detachment from one’s body. Physical exercise and knowledge of bodily symptoms gave a sense of control over pain and tiredness. Need to respect limits on body (and life) imposed by pain.
Second-order construct: Raheim 2006:348 typologies – coping

A dialogue between the body and self creates a caring relationship despite its treachery. Dialogue with partner and family about pain and needs appears integral to adjustment and gaining the support of others. Working with the body and not against it.

6(b) Redefining normal and less focus on lost self
This describes the person in pain who no longer focuses on losses but on reconstructing an acceptable new self. It describes an acceptance of change and a sense of repairing existence; I have changed but I am still me, and can enjoy life.

Second-order construct: Lachapelle 2008:335 process of acceptance – redefining normal

Letting go of pre-pain self-expectations and shifting their focus to what they could accomplish now, despite the pain, was an important next step. The knowledge that no return to pain-free status possible. Followed by a grieving of losses and a redefinition of goals, although conscious of having the power to also choose a path of giving in to negative emotions.

Second-order construct: Skuladottir 2011:355 quest for normalcy

Retain optimism hope positive thinking goals at same time be realistic. Although pain has changed me I am still a strong person. Gaining a sense of achievement from the things I can do. More of a focus here on positive thinking and seeking meaningful activities to occupy time and focus in order to maintain good mood and optimism.

New patterns and routines are developed and the focus is on accomplishment in spite of pain.

Second-order construct: Werner 2003:369 applying the competence – focusing on resources (not pain)

Learned to be less focused on pain and more on personal resources and enhancement, i.e. what can I actually do rather than how do I feel; simply to treat oneself or enjoy a pleasurable activity and mobility; making adjustments to amount of tasks to be undertaken in relation to bodily capacity and letting others know about this work capacity.

Second-order construct: Gullacksen 2004:377 stage 3 – maintenance (handling future changes)

Normalising life in spite of pain demands skilful strategies of coping. Increased self-knowledge gained through this (hidden) struggle.

This process is experienced alongside a sense of grieving for the old ‘real self’.

Second-order construct: Lofgren 2006:337 grieving

The sense of loss of a previous life but also the time when the process of grieving allows a turning point and new opportunities. Entailed working through loss of former self and body to reach a point of finding new ways to live life. Work through feelings of disappointment, self-blame, sadness, despair, regret. Grieving process important to rehabilitation.

6(c) Being part of a community of others with pain
This describes the positive impact of being part of a community of others with pain. It brings a sense of sharing, being valued and becoming credible; there are others who understand, believe and respect me.
Second-order construct: Gustaffson 2004:327 shame to respect

Started rehabilitation with feelings of shame and self-doubt. Felt disbelieved by health professionals and misunderstood by family. The group interaction realised a change from these negative emotions to a greater sense of respect and self-worth with more positive relations with others.

Second-order construct: Werner 2003:369 for better or worse – recognition gives strength

Recognition and respect demonstrated within groups strengthened participants’ self-confidence and self-esteem while diminishing feelings of guilt for not being restored to full health. The participants described the strength, confidence, and awareness gained from the treatment programme as being useful bodily and emotionally, and gave social competence outside the group context.

Second-order construct: Sallinen 2011:352 permission to talk

Permission to talk – peer encounters often a turning point after wrestling with disbelief for a long time. Had kept feelings to themselves so as not to jeopardise existing relationships. Now had ‘permission to talk’ with genuinely interested peers and valued this. It captures the relief and joy of feeling free to unburden the experiences of pain with those who did not judge.

However, despite the benefits of being recognised within a group of others with pain, this concept incorporates a sense of ambivalence: I am like the others but at the same time I am not like them, and do not want to ‘celebrate illness’. This was reinforced by narratives of the self as a ‘good’ person, with the possible implication that I am better than the others.

Second-order construct: Mengshoel 2004:341 unwilling to celebrate illness

The women actively resisted the sick role through participation in the fibromyalgia patients’ association and non-disclosure to employers, for example; did not want to ‘celebrate illness’ with other sufferers; described it as a fellowship designed to endure a hopeless fate. Keep it quiet.

6(d) Telling others about my pain

This describes the release that comes with no longer having to hide pain from others and the benefits of letting others know about my limitations. It shows how a person begins to limit the demands of others and manage resources.

Second-order construct: Werner 2003:369 applying the competence – informing others

Women now let others know of their limitations and capabilities. Being outspoken about personal needs and desires was said to be a constantly on-going internal and external process of work.

Second-order construct: Gustaffson 2004:327 setting limits – telling others

Programme has taught them to tell others about their condition and thus reduce demands on themselves [learn to say no].

There is a sense that the person no longer needs to gain the approval of others.

Second-order construct: Werner 2003:369 applying the competence – encountering others

With renewed self-esteem following the programme patients were less reactive to and concerned about what others felt about their chronic pain, and less preoccupied with gaining approval.
6(e) Realising that there is no cure for my pain
This describes the realisation that pain is here to stay. The person in pain becomes liberated from the ceaseless search for a cure, which has previously limited the possibility of moving forward.

Second-order construct: Gullacksen 2004:377 stage 1 – acknowledgement

Acknowledging that pain was not temporary was crucial to adjustment. Necessary to give up the aspiration to return to life as ‘normal’. This grew as an ‘inner certainty’. no longer possible to hide situation. Now turned toward the future, although this did create anxiety about what future holds. Stopped waiting for a cure to be found and turned to own resources. Hope for recovery maintained but no longer an obstacle to alternative possibilities. Change begun.

Second-order construct: Harding 2005:330 living with and planning for the future

With time there came a sense of resignation to the pain and accepting it as a part of life for the foreseeable future. Acceptance of pain and whether it would ever eventually end dominated this theme. Some reported the notion of an increased pain threshold to accommodate the pain. This acceptance marked a significant point of the patients pain career and was characterised by a sense of active adaptation.

For some, this ‘acceptance’ marked a new phase in moving forward into a new life alongside pain.

Second-order construct: Paulson 2002:346 striving to endure – nurturing hope

The men had come to terms with a future that may not be pain free. This seemed to help them to be hopeful for the future. Keep courage.

There is a sense that recovery is about becoming someone new rather than returning to what you were before.

Second-order construct: Sallinen 2010:351 coping with fluctuating symptoms

Process of learning to live with fluctuating symptoms by adopting strategies of prioritising, pacing and work adjustments. Others experienced release from work an amnesty, as it allowed them to break down tasks and listen to their body. Able to maintain role with some compromises. Coping was expressed as an acceptable goal of recovery, thus recognising that full remission might not be possible.

6(f) Becoming an expert
This describes the process of becoming an expert: becoming less reliant on a health-care professional to know and meet my needs. It describes how the person comes to know their own body and gains the confidence to experiment and choose to change their behaviour.

Second-order construct: Steen 2001:385 experimenting

Narrative of discovery [learning to trust own opinions?]. This seemed to capture how the group and leaders gave them permission to explore, be curious and be creative. The feeling generated to be celebrated and not hidden. A respect for patient opinions about illness and exercise choices although they may have limited experience of these processes. Also seems to be about patients valuing freedom to try things out, such as different methodological approaches (and make mistakes), rather than only following the instructions from health professionals.
Second-order construct: Skuladottir 2011:355 quest for normalcy – involved in decision-making

Women felt they were the experts in their own pain and valued participation in decision-making surrounding pain. Realised the limitations of health-care professionals and that I am the expert of my pain. I am in charge.

For those with fibromyalgia, this could be triggered by obtaining a ‘name’ for a condition that they could now seek to understand.

Second-order construct: Lofgren 2006:337 constant struggle – being knowledgeable

Described as learning everything there is to know about fibromyalgia. They read the journals and the Internet and/or discussed with others. The knowledge gave them both self-esteem and respect for others similarly placed. It helped them find new ways to cope and encouraged them in thinking about their pain as not dangerous.’


Having a diagnosis was a key turning point for them to seek out information about their condition. Effective self-management linked to the undertaking of non-medical strategies that improved ability to perform activities desired despite pain, empowering patients to take control of their lives. Women with fibromyalgia more self-reliant in educating themselves about illness compared to women with arthritis who received greater access to information for health and specialist organisational sources.

Constructions that did not fit our team categories

Although there are always data that do not ‘fit’ in qualitative analysis, we found relatively few second-order constructs (six MSK and four fibromyalgia) that we did not think fit into our conceptual categories. These are shown in Box 7. We did not want to ‘shoehorn’ constructs into categories if we did not think that they ‘fit’.

Synthesising translations: line of argument

Our findings revealed the new concept of an adversarial struggle that explained what chronic MSK pain was like. The following describes our line of argument or conceptual model, which explains the categories described above.

The constant struggle of chronic musculoskeletal pain

Figure 12 illustrates the constant struggle to affirm the self; to reconstruct a sense of self in time; to find an explanation for suffering; to negotiate the health-care system; to prove legitimacy. These over-riding themes are adversarial, giving a sense of being guilty until proven innocent. The person is pulled in different directions; between an integrated or an alienated body; between the ‘real me’ or the ‘not real me’; between a connected me or an isolated me. Amidst this struggle, their present and future have become unpredictable. The way that the person constructed their self in time prior to pain (their hopes, expectations and aspirations) is now altered.

On a different front, the person battles to attain an acceptable explanation for their suffering. The person looks towards the health-care system where the medical model prevails. This model takes disease to be an objective biomedical category that can be accounted for by a specific aetiology; it implies an illness trajectory whereby a cure naturally follows diagnosis and treatment. The person with chronic MSK pain does not fit this model and they become alienated from it. This is experienced as ‘failing’ the medical test. In spite of this, the person feels compelled to re-enter the system: if I pass the test then there must be a cure; if I pass the test then it must be true and everyone will believe me. Thus, the person continues to struggle to negotiate the health-care system despite their ambivalence towards it, knowing that it is failing...
BOX 7 Second-order constructs that did not fit our categories


Frequently not able to finish a performance and needed strong intent. However, occupations completed even if body racked by pain as this brought a sense of satisfaction. Sometimes completed task in spite of potential consequences and increased pain.


Fear of increased pain – acute fear of aggravated pain if one exercises.

Bair 2009:314 barriers to self-management – strategies don’t work.

Difficulty in doing the exercises and experiencing exercises as ineffective also a barrier. Why do it if it does not work?

Coole 2010:320 employers – managers with back pain.

Perceived managers who had had back pain were more supportive.


Slow to change as pain often regarded as temporary at first. As sick periods got longer and effected life – reached a critical point.

Hunhammar 2009:331 striving to master variable pain – space for health.

The experience of chronic non-specific pain added an additional burden to life which required a space to meet these demands such as physiotherapists’ appointments or time to keep fit. Gender differences emerged with childcare a main consideration for women.


Localised pain can spread out over all of body. Exercise helped only in early stages, and then it became too painful to use this strategy to relieve pain. Frustrating.

Paulson 2001383 worrying and not worrying pain.

Single areas of the body that ached but were mobile were less worrying than a situation where multiple areas experienced intense pain.


Felt lives could be different if pain went. Searched for ways to lessen pain and improve quality of life. May include medication, or trying to work through pain or even periods alone. Peace of mind found from gaining access to disability pensions as no longer had to explain invisible symptoms.

Toye 2012:365 restoring hope – deconstructing fear of specific movements.

Prior to pain management, fear of moving had made them avoid specific movements. Several factors helped to deconstruct fear: learning that hurt does not mean harm, seeing other in group do feared movement, performing feared movements, working through flare-ups under supervision.
to meet their expectations as being in the system legitimates their pain. Our interpretations suggest that people with chronic pain also explore alternative explanations for their suffering: age, psychosocial factors or life events. In their struggle to negotiate the health-care system, they do not feel that they are believed or valued by health-care professionals. Despite the mind–body dualism inherent in the medical model, the person in pain needs to feel that they are more than just a body; to feel that the medical professional is alongside them as another human being. There is a sense that this is fundamental to the therapeutic encounter rather than just an adjunct.

Alienation from the medical model means that pain itself is experienced as non-legitimate. The person with chronic pain uses strategies to gain legitimacy. First, they use narratives to prove to those around them that they are a good and valued member of society. Second, they struggle to find the right balance between hiding and showing others that they are in pain, or between appearing ‘too ill’ or appearing ‘too well’. The outcome of this struggle has an impact on the struggle to affirm self. If I am ‘too well’ or hide my pain completely then I do not appear legitimately ill. If I am ‘too ill’ or show my pain ‘too much’ then I cannot be me.

Moving forward alongside pain

Figure 13 illustrates categories linked to moving forward alongside pain. Through listening to and integrating the painful body (1), the person moves away from an alienated and unrelenting body. Although the body is still experienced as apart from self, there is a sense of co-operation that enables the person to move forward. Living alongside pain also involves redefining a sense of ‘normal self’ and focusing less on loss (2). Although this may follow a period of grief and loss, some discover that the new person is as real. Telling others about my pain and not feeling compelled to hide it or gain approval (3) can
affirm reciprocal relationships with others, and a feeling of being connected again. Meeting other people with chronic pain (4) also brings a sense of being connected, despite feelings of ambivalence (I am not completely like the others). Finally, realising that there is no cure for pain (5) and becoming an expert (6) may provide a resolution to the struggle to negotiate the health-care system and their alienation from the medical model. As the ceaseless struggle to find a diagnosis and cure ends, a person becomes open to other possibilities. By gaining knowledge of their body, the person gains the confidence to experiment and change their behaviour, without the sanction of the health-care professional. There is a sense that I am now the expert of my own body.
Chapter 5 Discussion

We have used the methods of meta-ethnography to produce a conceptual synthesis of studies exploring patients’ experience of chronic non-malignant MSK pain. Our model presents a line of argument that highlights the adversarial experience of people with chronic MSK pain but which also offers an understanding of how some aspects can be surmounted. Although facets of this struggle are evident in the primary studies, our innovation is to show that struggle pervades multiple levels of the person’s lived experience: their sense of body and self; their biographical trajectory, their reciprocal relationships at home and in the wider community; and their experience of health-care services. We described the person’s struggle to keep hold of a sense of self whilst feeling misunderstood and misbelieved. This adversarial experience is central to our model and may distinguish it from other types of chronic pain. For example, a person who suffers pain from cancer may not face the same struggle of proving their credibility to others. Fundamental to this adversarial experience is the cultural value placed on the biomedical model. This model has deep roots and can have a large impact on the experience of suffering. In spite of this struggle, our model offers an understanding of how a person with chronic MSK pain can move forward alongside their pain. This involves a process of integrating the painful body, redefining a self that you want to live with, feeling valued as a worthy human being with unique experiences and participating in valued reciprocal roles. It also involves realising that a medical cure is unlikely and moving away from the focus on the health-care professional as expert. We now discuss our findings focusing on implications for health care and possible areas for future research.

Integrating my body

Our model suggests that dualistic therapeutic approaches do not encourage a person to move forward, and that a more embodied approach to illness might help. A theory of embodiment has its philosophical roots in the writings of Merleau-Ponty, who breaks down the dualism of mind and body to focus on the central place of the body in constructing our experience of the world. Embodiment theory emphasises bodily experience and the way in which we construct this experience. This embodied approach in no way denies the existence of disease, but shifts the ‘level of analysis’ to the individual’s understanding of the experience. Thus, Frank’s ‘medicalised body’ and Kleinman’s conceptualisation of the biomedical model as a culturally specific ‘explanatory model’ demonstrate that, although we are bodies, the conditions through which we experience our bodies are constrained by culture. Our model supports the suggestion that, because chronic illness is constructed in a certain way, it is experienced as ‘failure’:

The dilemma of the ill... is that they are constructed as responsible for their health and thus feel guilty, and simultaneously understand themselves as having less and less control over their bodies... while patients feel responsible, professional medicine places the cause of their disease beyond their control.

p. 138

Our model also suggests that the way in which we experience our own body has an impact on the way that we construct disease. As part of a person’s struggle we described the fragmentation of body and self, and suggested that moving forward with pain involves a process of reintegrating the painful body. In his classic work, The Absent Body, Leder explores reasons for this fragmentation, which he argues explain the prevalence of Cartesian dualism (see http://plato.stanford.edu/entries/dualism/#MinBody; accessed 2 July 2013) in the development of Western scientific thought and modern medicine. Cartesian dualism conceptualises mind and body as separate entities. Leder argues that, before the onset of pain, our bodies are ‘essentially characterised by absence’ (p. 73). Under conditions of health, we perform actions automatically and remain unaware of our body until something goes wrong with it. Health presupposes that we remain unaware of our bodies. When in pain, the body emerges as an ‘alien presence’; it ‘dies–appears’. I no longer am a body but have a body, and my body becomes an ‘it’ as opposed to an...
‘I’. Wall^399 describes this dualism as epitomised by the expression ‘my foot hurts me’ as if in some way the foot is apart from myself (p. 23). It is because ‘the body seizes our awareness particularly at times of disturbance, [that] it can come to appear “other” and opposed to the self’ (p. 70).^388 This fragmentation of ‘mind trapped inside an alien body’ means that our bodies become mistrusted and ‘forgotten as a ground of knowledge’ (p. 86).^388 Our concept ‘integrating my painful body’ implies an altered therapeutic relationship with the body in which the dualism of mind and body are broken down.

Our model opens up possibilities for therapies that aim to change the way that we experience our own body when we are in pain. For example, mindfulness-based therapies encourage those with pain to learn a ‘particular kind of attention characterized by a non-judgmental awareness, openness, curiosity, and acceptance of . . . experiences’ such as pain (p. 83).^400 Qualitative research focusing on the way that we experience our own body when it goes wrong, a phenomenology of the body, would be useful to help understand the efficacy of therapeutic approaches such as mindfulness. This research would help us to understand the impact of these approaches on recovery from illness.

Accepting pain and redefining my self

Our model shows how threats to self-identity are fundamental to the experience of chronic pain^401 and suggests that moving forward with pain involves redefining self. Patients struggle to reconcile the new self in pain with an old self-rooted in the past or a hoped-for-self in the future. This is supported by Campbell and colleagues^39 meta-ethnography of rheumatoid arthritis, which describes a loss of ‘life definition’ (p. 111). Our model links to developing psychological theories utilised in pain management. In particular, it supports studies showing that an individual’s capacity to redefine their self, their psychological flexibility, may help people move forward with pain and reduce its impact.^402,403 A new wave of acceptance and commitment therapies (ACTs) focusing on psychological flexibility is showing promise in the treatment of those with chronic pain. These therapies construct acceptance as moving towards goals that define self alongside a ‘willingness to continue to actively experience pain along with related thoughts and feeling’ (p. 145).^404 Although moving towards self-defining goals is integral to ACT, acceptance might mean different things to different patients (and their clinicians). For example, for some the term ‘acceptance’ might imply giving up^404,405 and this may have an impact on their willingness to engage in ACT. Qualitative research exploring the meaning of acceptance for both patients and clinicians might help us to understand the efficacy of these approaches.

We do not know why certain patients can accept and redefine their sense of self and others cannot. It may be related to the degree of disruption to self that is caused by pain. The enmeshment model developed by Pincus and Morley^406 proposes that, if a person regards their ideal self as unobtainable in the presence of pain, they are less likely to accept chronic pain. The enmeshment model incorporates self-discrepancy theory,^407 which proposes that the extent to which pain disrupts our lives depends on the meaning that it holds for us. In self-discrepancy theory meaning incorporates three constructs: (1) actual self – ‘your representation of the attributes that someone (yourself or another) believes you actually possess’; (2) ideal self – ‘your representation of the attributes that someone (yourself or another) would like you, ideally, to possess’; and (3) ought self – ‘your representation of the attributes that someone (yourself or another) believes you should or ought to possess’ (p. 320–1).^407 Our ideal and ought selves act as guides that we strive to achieve. Discrepancies between these guides and our actual self can lead to powerful emotions such as shame, dejection, embarrassment or even fear. Ideally, these powerful emotions drive us to actions that will ultimately reduce the discrepancy. The enmeshment model extends self-discrepancy theory by suggesting that the degree to which certain goals are integral or ‘enmeshed’ with my self-concept will determine the degree of emotional consequences.^406 For example, if the desire to be independent or to interact with others is highly valued, this is likely to lead to greater distress if it is threatened.^401 Self-discrepancy theory incorporates the importance of what another person thinks about me. In other words, any discrepancy between what people think I am and what they hoped or expected can have a powerful effect on how I feel and behave. These psychological models are useful as they
acknowledge that we cannot understand the impact of pain unless we try to understand personal meanings. Therapeutic approaches aimed at helping a person to move forward with pain need to focus on facilitating redefinition of valued self.

**Redefining self in space and time**

Our model shows how a person’s construct of self now and in the future is altered. We described how the unpredictability of pain creates an endless present in which the person in pain becomes constantly vigilant of the body. Thus, the person in pain becomes focused on the here and now. Leder388,408 describes this as the ‘centripetal mode’ in which a person focuses in towards the body rather than out towards the world and future. When we have pain we no longer engage in the world as we once did. Our usual sense of time and space is replaced by constant bodily vigilance; ‘the oppressive nearness of coenaesthesia’ (p. 75).388 ‘Our sensory experience, normally directed ecstatically upon the world, is now forced inward in a centripetal fashion. We no longer see hear, feel the world through our bodies: instead the body itself becomes what we feel’ (p. 255).408

Our model supports approaches that empower a person to live outwards towards the world, rather than in towards the body. In other words, therapeutic approaches that empower participation, defined as ‘involvement in life situations’ (p. 10).409 This means trying to live as a reciprocating person with meaningful social roles, setting goals and making plans for the future. For example, pain management may aim to empower a person to remain in or return to work, or to continue to move towards family or educational goals. Our model illustrates the impact that not feeling that anyone believes you has on participation. The International Classification of Functioning, Disability and Health410 regard ‘stigma’, ‘stereotypes’, ‘people’s reactions’ and ‘prejudice’ as key factors limiting participation, factors that go beyond the activity limitations resulting from physical impairment. Our model shows that a sense of not feeling believed causes social isolation and limits participation. As participation is integral to a return to health, research is needed on the factors, beyond physical impairment, that limit participation for those with chronic pain. This opens up possibilities for therapies that aim to empower participation.

We described how a person’s construction of time is altered. Leder’s388 centripetal mode incorporates this altered relationship with time; ‘pain seizes [us] back to the present’ and we are no longer at ease to ‘roam the future’ (p. 75). Although our model supports this pull towards the moment now, we also found that people in pain simultaneously looked towards the future with a sense of misgiving. Before pain our construct of self-in-the-future remains dynamic; none of us is likely to turn out precisely as we plan. However, in conditions of health, we do not remain focused on this discrepancy. In contrast, for those with chronic pain, the discrepancy between what we had planned and what is now felt to be likely is brought starkly to the foreground. The life that we, or others, planned is irreparably altered. The future ‘dys-appears’ giving a sense of hopelessness. This altered regard towards the future has an impact on a person’s self-perception. Patients and their clinicians therefore face the challenge of reconciling a sense of hope with the realisation that pain is here to stay. Research focusing on how a person can reconcile hope with an acceptance that pain is here to stay would help us to understand outcomes for people with chronic MSK pain.

**Patient as subject not object**

We describe relationships with health-care professionals that do not necessarily empower patients to move forward. We show that patients with chronic MSK pain do not feel heard, believed or understood as living subjects. This clinical relationship focusing on the patient as an object is historically and culturally embedded: ‘The post-Cartesian world has very successfully out-descarted Descartes. It has perfected a pain so stripped down that it has almost no meaning’ (p. 274).411
Foucault described the paradoxical position of the clinical encounter, in which the doctor aims to diagnose a disease rather than understand the person’s experience: ‘If one wishes to know the illness from which he is suffering, one must subtract the individual, with his [or her] particular qualities’ (p. 15).

However, it is ‘pathos’, the feeling of suffering and powerlessness, of ‘life going wrong’, that precedes a person’s visit to the doctor (p. 137). Our model suggests that central to the therapeutic relationship is the recognition of ‘pathos’; the patient is a subject rather than an ‘object’ of investigation. This concept is central to models of patient-centred care. Leder argues that, when treated as the object, the person becomes conscious of themselves as an alien thing, thus reinforcing dualist metaphysics. Our model supports a therapeutic relationship that challenges the dualism of mind and body, and meets the patient as an embodied individual: ‘When the patient is not treated as a living, desiring, suffering being, compliance is reduced, evidence is overlooked, inappropriate treatments are prescribed, genuine healing gives way to “fixing the machine”’ (p. 97).

We described a need for a person in pain to feel that the health-care professional is alongside them with their pain. Affirming a person’s experience and allowing an empathetic interpretation of their story is not an adjunct, but integral to health care. This is far away from the clinical encounter described by Foucault, in which patients’ meanings are stripped away by the health professional in their well-intentioned efforts to diagnose a disease. People construct the meaning of illness through their stories, and it is only by listening to these stories that we understand their response to illness. For example, narratives can tell us about discrepancies between a person’s actual, ideal and ought selves: what am I like compared with what I used to be and what I wanted to be? Narratives also reveal underlying tensions. Bury describes moral narratives in which people make efforts so show themselves as worthy human beings, which our model supports. These narratives are particularly important when there is no explanation for their suffering, and a person feels alienated from the biomedical model. Illness narratives emphasise the cultural context of illness and how it impacts on suffering. This therapeutic need to be heard and valued may have implications for education, for example the use of arts and humanities in clinical education to help health professionals develop skills of empathy and compassion.

Towards a culturally embodied model of pain

Our model supports anthropological studies that have shown that suffering gives rise to a search for an explanation. An explanation allows us to do something to relieve our suffering, to take reparatory action. The way that we explain illness is embedded in our culture and we learn this from those around us. Our findings show that cultural models used to explain illness are integral to personal meanings, and therefore the experience of illness. The medical model is an example of a culturally specific model for explaining suffering. However, this model has certain characteristics that are fundamentally antagonistic to the experience of those with chronic MSK pain: the dualism of mind and body; specific aetiology and curability of disease. The biomedical model does not fit the experience of those with chronic MSK pain yet still remains highly valued and integral to credibility, even though we know that biological findings do not fully explain pain. Biomedical approaches based on a dualism of body and mind are ‘ill-equipped to resolve the problem of pain’ (p. 41). Many health-care professionals may not feel that they adhere to a biomedical model, and may indeed be surprised by the finding that is it highly valued. However, cultural expectations of diagnosis and cure still have a powerful effect on the experience of pain: ‘society itself is changed by its belief in medicine and surgery’ (p. 162). The Cartesian dualism of mind and body integral to the development of Western scientific thinking (erroneously) presumes that, if something cannot be found in my body, it must be in my mind. We describe how people struggle to achieve a diagnosis and ‘pass the medical test’ so that people will believe them. Importantly, although qualitative studies have consistently shown that people with chronic pain feel that health-care professionals (and others) do not believe them, this disbelief is still deeply felt. This finding has implications for health-care practice.
Taking an anthropological perspective, Csordas suggests that healing is a cultural process that involves altering the meaning of suffering in order to generate possibilities for the future. Croft and colleagues suggest that a change in model would improve the outcome for patients with MSK pain, in particular moving away from the focus on pathology and towards the experience of symptoms. In other words, treat symptoms rather than defined pathological conditions. This requires a shift away from the prevailing explanatory model. It can be extremely difficult to challenge cultural models as they are inherently stable and have a logic grounded in culture. We have described how patients feel compelled, yet at the same time reticent, to engage in a health-care system that is failing their needs. There is a sense of being ‘trapped in the system’. This compulsion may be fuelled by the value placed on a cultural model in which diagnosis, treatment and cure are culturally expected norms. The compulsion is further fuelled by a person’s need to legitimise pain. However, although difficult to challenge, static cultural models do shift if they continue to be challenged by lived experience. Our analysis shows that cultural models can hide deep underlying tensions. The biopsychosocial model is an alternative cultural model that has been successfully used for some years in therapeutic approaches for chronic pain. It aims to focus on the ‘human experience’ of illness and suggests that illness experience is the result of a complex relationship between biological factors and psychosocial factors. Although the biopsychosocial model goes a long way towards incorporating experience into our understanding of pain, it faces criticisms in that it is still ‘dualistic’ at its core. For example, Grace argues that psychological factors tend to be ‘grafted onto the somatic’ (p. 44). Our interpretation supports a truly ‘integrative’ model that treats pain as an embodied experience. Embodiment focuses on meaning, which can be understood only in the context of the individual’s social, cultural and historical context. Meaning is vital to an individual’s emotional response and actions; it is ‘never external to pain, never something “added on”’ (p. 48). This fits with the International Association for the Study of Pain definition of pain as a sensory and emotional experience: ‘Pain is always accompanied by emotion and meaning so that each pain is unique to the individual’ (p. 38).

Culture gives meaning to experience by providing a system for ordering and categorising experience. In her classic texts, Susan Sontag uses the examples of cancer and tuberculosis and later acquired immunodeficiency syndrome to show how cultural meanings are attributed to illness, even if illness has a specific pathology. In short, imaginative or ‘metaphoric thinking’ regarding illness is integral to the experience of suffering. Discrepancies between cultural categories and our experience can result in powerful emotions that cannot be understood outside the cultural context. For example, the mismatch between the experience of chronic pain and the biomedical model can produce feelings of worthlessness, fear, agitation, shame and guilt. Explanations that focus on culturally embedded meaning might provide a useful link between culture and physiology.

The performative aspects of pain experience

Our model also suggests that performance is integral to the experience of chronic MSK pain. The struggle to successfully perform pain has important implications for chronic pain management. First, we describe the person’s struggle to balance whether or not to show or hide their pain; to appear well or ill. In this way their experience of pain is scripted to present a particular impression. This should not in any way imply that pain is not real; Goffman suggests that performance is integral to social life. Through performance we make things happen by presenting a certain picture of ourselves.

When an individual appears in the presence of others, there will usually be some reason for them to mobilise their activity so that it will convey an impression to others which it is in their interests to convey (p. 3). Our model also resonates with Turner’s influential anthropological work on performing cultures. Like Goffman, he supports a theatrical paradigm for culture. Turner’s work is important because he observes the dynamic and dramatic process maintaining cultural life. He describes how cultural norms are not static but continually re-enacted through a performative process whereby (1) cultural rules are breached, (2) there is a period of crisis when the person remains outside or ‘liminal’ to culture,
(3) redressive action is taken and (4) there is a resolution of crisis through reintegration or schism with culture. This resonates with facets of our model: I don’t fit the medical model (breach); nobody believes me (crisis); I am struggling to prove legitimacy, to negotiate the health-care system and to construct an explanation for my suffering (redressive action). However, our model demonstrates that, for many people with chronic MSK pain, there is no resolution and they remain culturally liminal. From the Greek word *limen*, meaning harbour, liminality refers to a person or thing that is neither wholly one thing nor the other; a person who resides in-between categories. Some argue that a person with unexplained symptoms may be stigmatised because they are culturally liminal.123,427 We also show how a person with MSK pain uses moral narrative to perform their credibility by presenting a certain ‘virtuous’ picture of themselves.393,428 These moral narratives may be particularly important when medical explanations are absent and a person finds themselves standing outside culture.393

Qualitative syntheses in musculoskeletal pain

There is already an insightful qualitative synthesis exploring the experience of rheumatoid arthritis.28 Campbell and colleagues28 meta-ethnography of rheumatoid arthritis supports important areas of our conceptual analysis. For example, their model highlights the person’s need to explain elusive symptoms; the unpredictability and unrelenting nature of rheumatoid arthritis; the loss of ‘life definition’ and disruption to self; a dread of the future; and the loss of reciprocal roles and social isolation. Unlike Campbell and colleagues, we identified concepts that describe patients’ experience of health care, although these were less evident in the fibromyalgia studies. This may highlight the relative importance and impact of patients’ experience of health care, particularly for people with MSK pain for whom a diagnosis is often absent. In short, the experience of health care is integral to a person’s experience of pain, and was more prevalent in the second-order constructs from primary studies than the experience of pain itself. We did not identify a qualitative synthesis that explored the experience of osteoarthritis and this might be a useful future synthesis.

There is a previous qualitative synthesis of fibromyalgia studies429 and, as the condition incorporates symptoms other than MSK pain, we discussed with the advisory group whether or not to include fibromyalgia studies in our meta-ethnography. We decided to include fibromyalgia on the basis that chronic MSK pain was central to the experience, and that the studies were therefore likely to be insightful. We also wanted to be able to compare fibromyalgia and MSK concepts arising from our analysis. Our synthesis includes 19 of the 28 papers incorporated in Sim and Madden’s fibromyalgia synthesis. We did not include papers that did not meet our criteria for inclusion, and included an additional nine fibromyalgia studies.324,327,335,351,352,366,373,377,381 Their synthesis supports important areas of our conceptual analysis, for example the ‘conscious awareness’ of the body in pain; the unrelenting nature of fibromyalgia; isolation and loneliness; the search for an diagnosis; the ambiguity of diagnosis and loss of legitimacy. It also supports concepts related to moving forward with pain, including listening to the body, accepting losses and re-evaluating life. This overlap in themes is encouraging and supports the integrity and usefulness of qualitative syntheses in health research.

In another systematic review of qualitative studies, Parsons and colleagues430 explored the influence of patients’ and primary care practitioners’ beliefs and expectations about chronic MSK pain on the process of care. Their finding that clear communication and trust is integral resonates with our model. Their review also supports the finding that the biomedical model does not fit the experience of those with chronic MSK. In particular, although they suggest that the causation of pain was grounded in the biomedical model by practitioners and in personal experience by patients, there was conflict in both patients and practitioners about the balance of these two causal explanations.
Methodological issues

We have discussed our conceptual model and some of the health-care and research implications. The following section explores methodological issues specific to meta-ethnography. Campbell and colleagues acknowledge that there are different ways of carrying out meta-ethnography and that it is not useful to be rigid in one’s approach. There are both epistemological and practical challenges involved when synthesising qualitative research. A useful description of some of these challenges is given in a HTA report by Murphy and colleagues. We will focus on challenges specific to meta-ethnography.

Does qualitative synthesis remove us too far from the participant’s experience?

Of particular relevance to meta-ethnography is the qualitative research emphasis on the idiographic origin of knowledge. In other words, qualitative research focuses on the unique experience of the individual within a particular context. However, qualitative synthesis is an interpretation (third-order construct) of an interpretation (second-order construct) of an interpretation (first-order construct). Does qualitative synthesis then remove us too far from the primary experience to reveal any truth? The capacity of qualitative research to say something that is transferable outside its context has roots in the qualitative research tradition, notably grounded theory. You could argue that qualitative research aims to develop ideas that help us to anticipate the decisions that a person might make beyond the specific context. However, it is important that the interpretations of qualitative research remain grounded in experience. We took great care to make sure that our concepts were grounded in the primary studies by collaboratively challenging our individual interpretations of second-order constructs. Although we recognise that this adds another level of interpretation, it gave us confidence that we were holding true to the meaning of the original author. We also emphasise that our final analysis is an interpretation by using our second-order constructs rather than participants’ own words to illustrate our concepts. To allow readers to challenge our interpretations, we remain transparent by presenting all second-order constructs (see Appendix 3), including those that did not fit the developing theory (see Box 7) and findings that we judged were ‘untranslatable’ (Table 9). In summary, we share the view that the construction of knowledge always involves a level of abstraction beyond the primary experience, and that transferable knowledge can be gained from qualitative research and its syntheses. However, this knowledge should be grounded in participants’ experience.

Do I need to carry out an exhaustive literature search or could this time be better spent?

Both researchers and funders should consider whether or not an exhaustive search of the literature is necessary for qualitative syntheses. It could be argued that we have spent a disproportionate amount of time searching for relevant studies and that this time could have been better spent. In their original text on meta-ethnography, Noblit and Hare do not advocate an exhaustive literature search and their examples of meta-ethnography include syntheses of between two and six papers. Qualitative syntheses do not aim to summarise the entire body of available knowledge or make statistical inference. Qualitative research uses small samples, either to develop conceptual insight or to gain insight into the particular and unique. Including too many studies might therefore make conceptual analysis ‘unwieldy’ or make it difficult to maintain insight or ‘sufficient familiarity’. Campbell and colleagues suggest that 38 studies is around the maximum number in meta-ethnography that will allow ‘sufficient familiarity’. The extent of any search will depend partly on the area of study and on the time and funding available. For example, if very little is published about a topic it may be necessary to expand the search more widely. We knew from the outset that we would find many studies exploring the experience of chronic pain. Our systematic search was therefore time-consuming and, although 95% of the studies were found using three databases (MEDLINE, CINAHL and PsycINFO), it took > 6 months of a 2-year study to complete the search. However, we wanted to produce a conceptual analysis with a weight of evidence that would have resonance with the health research community. The Cochrane Collaboration has a major role in providing systematic reviews of high-quality research. Its approach includes a systematic search for all of the
evidence on a topic. We felt that it was important to follow this approach to ensure that our findings were not dismissed as lacking rigour by failing to search for all studies.

**Do I include everything that fits the inclusion criteria?**

To limit the number of studies included, we applied strict inclusion criteria, excluding > 200 studies because they did not meet our specific scope. Specific information about the study sample was often not in the study abstract, meaning that we had to retrieve the full text of > 300 studies. A clearer description of the study sample in the abstract would facilitate more cost-effective research syntheses. There are good arguments for using homogeneous samples in qualitative research and specifically focused on the experience of people with chronic non-malignant MSK pain. This might mean that we excluded some insightful, arguably ‘classic’ papers (e.g. references 98, 145, 176, 432 and 433). It also meant that we excluded papers that explored the experience of people with chronic MSK diseases such as osteoarthritis and rheumatoid arthritis. Although we know that pain is often integral to the experience of people with MSK diseases, we excluded those papers that we agreed explored the experience of the disease, rather than chronic pain. It also meant that we excluded papers in which the study sample included those with chronic pain from other sites (e.g. visceral pain or headache).

The issue with deciding not to include all of the studies that match the inclusion criteria is how to decide what to include. Some qualitative researchers suggest a more targeted approach to sampling data, for example stop searching for new data when ‘theoretical saturation’ is reached, that is, when collecting additional data seems to add no more insight. This is more comparable with the sampling strategies commonly used in qualitative research. Qualitative analysis does not aim to achieve statistical representation but to develop ideas by exploring a particular experience. In contrast to quantitative analysis, qualitative analysis does not begin when all of the data are collected. Analysis and data collection occur simultaneously and analysis is ongoing throughout data collection. One option might therefore be to start searching a particular database and expand the search as analysis proceeds. For example, in their synthesis Dixon-Woods and colleagues began with a purposive sample of studies that they had retrieved from a systematic search and, as analysis developed, they used theoretical sampling of further papers to challenge their developing theory. However, the difficulty remains of how to determine which are the most useful papers without reading them. As the sheer volume of available knowledge increases, other methods for identifying relevant data are developing. For example, the Economic and Social Research Council is exploring the use of ‘text mining’ in knowledge reviews. Text mining identifies specific phrases or combinations of relevant words to target specific areas of knowledge amidst large volumes of data.

Another way to limit the number of studies is to include only those that we think are very good or ‘key papers’. A common approach in quantitative research synthesis, recently adopted in qualitative synthesis, is to use sensitivity analysis to allow the reviewer to assess the impact of including ‘lower-quality’ studies on the conclusions of a synthesis. Carroll and colleagues used sensitivity analysis to show the possible benefits of quality appraisal for qualitative research synthesis. The difficult question is how to determine what is good. It is a challenge to determine the impact of including studies of diverse quality if we do not agree on what good quality is. In short, it is difficult to decide what should and what should not be included. We therefore made the decision to systematically search for, and include, all papers that we felt were ‘good enough’.

**Methodological and conceptual quality: two sides of the same coin?**

We need to consider why we are spending a lot of time appraising studies: do we intend to exclude studies on the basis of our appraisal; does our appraisal have an impact on our interpretation? Qualitative researchers cannot ignore the debate about quality, and their intuitive certainty about what is ‘good’ should not remain sacrosanct; in other words, it is not good enough to say that we ‘know’ quality when we see it. Some researchers have begun to consider the impact of ‘quality’ on qualitative research syntheses and a growing number of researchers are appraising studies for the purpose of qualitative systematic reviews. Hannes and Macaitis report that the percentage of qualitative syntheses including
What is the value of methodological quality?

First, we need to consider whether or not we exclude methodologically weak studies and, if so, how do we decide what is inadequate. Although Campbell and colleagues argue that the ‘inclusion of poorer quality qualitative research . . . is unlikely to be as damaging’ (p. 45), should we include studies that are not methodologically sound, even if they show conceptual insight? Although they suggest that analysis needs to be rigorous enough to meet the research aim, they do not move from here to exclude papers on grounds of quality. In contrast, Dixon Woods and colleagues exclude studies that they judge to be ‘fatally flawed’, and give some guidelines for determining this. Our team and advisory group agreed that methods had to be good enough.

We agreed that several areas were integral to methodological quality. Fundamentally, does the study present a reflexive account of the research process, which allows the reader to make a sensible judgement about the authors’ interpretation? In short, can I judge how the context of the research affects the interpretation? Do the authors show how the findings are supported by the data? Do the researchers show how they have challenged their interpretation? For example, readers need a clear description of the research context to allow them to judge whether or not the final interpretation has come from the data. Reader also need to be able to judge for themselves whether or not the interpretation has been cherry picked to support a priori views. Although interpretations are inevitably influenced by a priori concepts, an important facet of ‘methodological integrity’ is whether or not the concept is grounded in the data (inductive) or is imposed on the data (deductive). This is supported by both Campbell and colleagues and Dixon-Woods and colleagues. ‘An interpretive synthesis does not float free of any empirical anchor: an interpretive synthesis of primary studies must be grounded in the data reported in those studies’ (p. 46).

The research report should show how the interpretation is supported by the data and how the authors have challenged their interpretation. This supports the guidelines for determining fatally flawed papers suggested by Dixon-Woods and colleagues. The tension between inductive and deductive approaches is not new and it may be more useful to interpret these approaches as two poles on a continuum. For the purposes of meta-ethnography, we agreed that studies should gravitate towards the inductive pole and that studies reporting deductive methods (e.g. studies that developed a framework for analysis from a literature review) or studies that imposed a priori structures on the data would not be included. As methodological reporting is the only means that we have of judging ‘inductiveness’, methods need to be reported well enough to allow readers to judge this. Although we intuitively felt that some studies would be ‘good enough’ (e.g. references 309 and 379), the brevity of the reports meant that we did not have enough information to make this decision and, thus, these studies were excluded. Although some might say that we have spent a disproportionate amount of time appraising studies, we argue that method is an important facet of quality that cannot be ignored (even if difficult to define). In particular, if there are aspects of method that might have a significant impact on the authors’ interpretation, and thus the integrity of the synthesis, we would consider this ‘fatally flawed’ and not include it in the analysis.

What is the value of conceptual quality?

Researchers, readers and journal editors should consider the value that they place on ‘methodological integrity’ vis-à-vis conceptual insight. Conceptual insight is integral to meta-ethnography and concepts are the data of meta-ethnography. However, methodological flaws can be easier to ‘pin down’ and therefore tend to be picked up in quality appraisal. Some therefore argue that excluding studies from qualitative research syntheses on the basis of quality appraisal criteria may mean that insightful studies are excluded. Campbell and colleagues chose to include conceptually rich studies with a poor report of method, arguing that meta-ethnography is concerned primarily with conceptual development. Some authors argue that may be a positive relationship between sound methodological reporting and a
positive contribution to the synthesis,\textsuperscript{435} although others suggest that there may be a negative relationship.\textsuperscript{28} Campbell and colleagues\textsuperscript{28} chose to include ‘classic’ studies in their meta-ethnography, assuming ‘methodological integrity’ in the absence of fully reported methods. Emphasising the importance of conceptual insight they state that: ‘There appears almost to be an inverse correlation between methodological quality and the quality of insight and theory-building displayed in many papers’ (p. 44).\textsuperscript{28}

We did not find data to support this statement and did find insightful studies that clearly described their methods, notably those by Osborn and Smith\textsuperscript{66,342–344} and Snegrove and Liossi.\textsuperscript{358} Although we agree that conceptual insight is fundamental to meta-ethnography, deciphering concepts from descriptive studies is not always straightforward. In other words, it is not always easy to see ‘the wood through the trees’. If a concept is an idea that develops by comparing particular instances, this will depend on the personal experience and background of the reader. Thus, it is not surprising that different readers fail to agree about which papers are conceptually rich or ‘key papers’. Agreement may mean only that we are exploring something from the same, arguably limited, perspective. It does not necessarily mean that we have been able to determine the truly ‘key papers’. Although the emphasis placed on the quality of concepts has its roots in qualitative research,\textsuperscript{67} it is not foreign to quantitative researchers, who also consider conceptual decision-making in their assessment of quality. For example, they might ask whether a study is measuring useful constructs (internal validity), or whether the study conclusions are relevant and transferable beyond this study (external validity). The difficulty remains, for both qualitative and quantitative methodologies, that the quality of conceptualisation is a matter of judgement, which is likely to remain elusive.

It might be more useful to see method and concept as two sides of the same coin. Therefore, studies should be methodologically good enough or ‘satisfactory’ to allow us to judge the interpretation made. However, studies that include useful concepts or challenging ideas may be ‘key’. We also need to consider that the concept of quality is constructed and dynamic. The criteria by which we judge quality are not fixed but shift and change over time and in relation to context.\textsuperscript{438}

**Is it useful to use appraisal tools for qualitative synthesis?**

Although appraisal tools are often used in qualitative synthesis,\textsuperscript{32} the majority of qualitative syntheses (27 out of 41) identified by Campbell and colleagues\textsuperscript{28} did not use appraisal criteria to determine inclusion. When tools are used to appraise the quality of qualitative research, there tends to be low agreement between researchers.\textsuperscript{57} Although we also found that agreement was low, the CASP appraisal tool was useful in framing our discussions and encouraging us to ‘read the papers carefully and systematically’ (p. 44).\textsuperscript{28} Although we did not intend to use a cut-off score, it was striking that we generally considered studies scoring < 20 to be ‘fatally flawed’. This may illustrate that appraisal tools help us to determine methodological weakness. Although we remain convinced that checklists will continue to produce inconsistent judgements regarding quality, analysis of potential reasons for variation is lacking, and this would be an extremely interesting area of research.

We found it more difficult to distinguish a ‘key’ or conceptually rich paper from a ‘satisfactory’ paper. Studies that we ranked as ‘key’ were not given a particularly higher CASP score (score 18–27) than those that we ranked as ‘satisfactory’ (score 20–28), and the range in scores was similar for both. This may reflect the emphasis on methods in the CASP score and may show that the CASP score does not necessarily reflect conceptual insight. Although we considered exploring the possibility of carrying out ‘sensitivity analysis’ by ranking papers, this would have been impossible as we did not agree on either score or ranking. (In quantitative syntheses, sensitivity analyses involve comparing the results of two or more analyses using different assumptions. For example, you might perform the analysis on higher- or lower-ranking studies to see whether the results are affected.)

In summary, if we see method and concept as two sides of the same coin, appraisal tools may help us to determine what is good enough or ‘satisfactory’ and to exclude studies with methodologically ‘fatal flaws’. We did not find any benefit from using any particular method of appraising studies. The tools did not help...
us to determine the quality of conceptual insight and, thus, the possible impact on our interpretation. In short, we did not always agree on what was conceptually rich or ‘key’ to the analysis. However, our innovative method of collaborative interpretation to define second-order constructs ensured that areas that were conceptually weak were not incorporated in the analysis, even if they were ‘good enough’ methodologically.

Is it possible to include 77 papers in a conceptual synthesis?
We knew at the outset that this synthesis was likely to include a large number of studies. Some authors (including Noblit and Hare20) argue that it is not possible to maintain familiarity with this number of primary studies28 and that we should find ways of limiting the number of studies included. Some suggest that meta-ethnography is more suited to smaller syntheses. However, we have discussed the inherent issues involved with making decisions about what to include when there is a large number of studies meeting inclusion criteria. Our unique innovations allowed us to analyse 77 studies within the time and budget allowed and to produce a conceptual model that is grounded in a large body of knowledge.

Central to our method was our collaborative approach to interpreting second-order constructs. This allowed us to produce a glossary of concepts that we successfully synthesised into a line of argument model. Although this was time-consuming, incorporating the interpretations of three team members made us confident that we remained true to the original studies. NVivo 9 allowed us to link the full original studies to all stages of the developing analysis, including team notes about the team members’ ideas and descriptions of concepts.

Limitations
The findings of qualitative research will inevitably be only one possible interpretation of the data. As qualitative analysis is iterative, it can be difficult to present exactly how you have reached your conclusions, or where your conclusions specifically come from. Researchers will always bring existing ideas and points of view into the analysis. We made great efforts to work collaboratively to challenge our individual interpretations at each stage of the analysis. The strength of our team was that members felt free to agree, disagree or change their mind within the safety of the group. This facilitated a dialectic process in which our ideas were challenged and modified. To illustrate the stages of this process we have included a full glossary of second-order concepts along with tables showing which of these concepts supported our categories (see Appendices 3 and 4). It is also important to consider that the strength of qualitative research is its focus on interpretation. Meta-ethnography is an interpretive form of knowledge synthesis that aims to develop new conceptual understandings. This process is iterative and utilises an ongoing form of knowledge production (thesis–antithesis–synthesis). Therefore, bringing ideas into a study is not necessarily a limitation, as long as these a priori ideas are challenged. In this way, Blumer439 distinguishes between definitive concepts, which precisely define the object of enquiry, and sensitising concepts, which give ‘a general sense of reference and guidance in approaching empirical instances’ (p. 7). Although we propose a model that ‘explains’ the conceptual categories, this model is our interpretation based on a rigorous process carried out over 2 years. We do not claim that this is the only way that these concepts could be explained and invite readers to consider their own interpretations in the light of ours, with the ultimate aim of improving patient care.

Clinical application
Our line of argument supports a model of health care in which the health-care professional sits alongside the person in pain. Affirming a person’s experience and allowing an empathetic interpretation of their story is not an adjunct, but integral to health care. In this way our model supports an embodied, non-dualistic approach that may be transferable to other chronic conditions.
Our model also suggests possibilities that might help patients to move forward alongside their pain:

- an integrated relationship with the painful body
- redefining a positive sense of self now and in the future
- communicating to, rather than hiding from, others the experience of pain
- knowing that I am not the only one with pain (but I am still valued)
- regaining a sense of reciprocity and social participation
- recognising the limitations of the medical model
- being empowered to experiment and change the way that I do things without the sanction of the health-care professional.
Chapter 6 Conclusion

This meta-ethnography provides a synthesis of concepts and suggests a model for pulling these concepts together. We focus on the constant daily struggle facing people with chronic MSK pain, which may distinguish it from other kinds of pain. For example, someone with cancer pain might not feel the need to prove that they are in pain. This suggests a very different starting point for people with chronic MSK pain. In spite of this struggle, our model suggests how a person can move forward alongside pain by listening to their body rather than fighting it; letting go of the old self and finding a new self; becoming part of a community and not feeling like the only one; telling others about pain and redefining relationships; realising that pain is here to stay rather than focusing on diagnosis and cure; and becoming the expert and making choices.

Our findings challenge some of the cultural notions about illness, in particular the expectation that the doctor will find a diagnosis and offer an effective treatment. These cultural expectations are deep-rooted and can affect the experience of pain. For example, not having a diagnosis can produce powerful feelings, such as worthlessness, fear, shame and guilt. Our model also shows that not feeling believed can have an impact on a person’s participation in everyday life. Qualitative research has consistently shown that people with chronic MSK pain do not think that doctors believe them, and this finding has not changed in more recent studies. This has clear implications for clinical practice and education. Our model suggests that central to the relationship between patient and practitioner is the recognition of the patient as a person whose life has been deeply changed by pain. Our model suggests that feeling valued is not simply an adjunct to the therapy or an optional extra, but central to it.

In the context of recent developments in pain management, it would be useful for qualitative research to focus on the following experiences:

- how a person in pain experiences their own body
- the meaning of acceptance for both patients and clinicians
- reconciling hope with acceptance that pain is here to stay
- other specific MSK pain conditions, for example shoulder pain
- other chronic pain conditions, for example chronic visceral pain.

Additional syntheses would also help us to understand the experience of chronic pain. For example, there is already a growing body of qualitative research exploring the experience of osteoarthritis. Efforts to synthesise qualitative research will help to make sure that qualitative research is accessible to a wider relevant audience.

Our research shows that meta-ethnography can be used to elicit concepts that increase our understanding of patients’ experience and enable us to explain the context in which people make decisions about health care. Conceptual models developed from meta-ethnography can have an impact on quality of care. Our model opens up possibilities for therapies that aim to help a person to move forward alongside pain. Although developed from studies of people with MSK pain, our model may also be transferable to other long-term conditions. Further research is needed that compares our model with the experiences of people with other chronic conditions.
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We would like to thank all authors and research participants involved in the qualitative research studies included in this meta-ethnography.

Thanks to Sue Robertson, Ambrose Phillips and Dor Wilson for their valuable support with the systematic search.

We would also like to thank the advisory group for their valuable contribution throughout this project.

Contributions of authors

Francine Toye (Researcher, Qualitative Research) contributed to the conceptual design, interpretation and analysis, wrote the first draft of the final report, made important intellectual contributions to the study and approved the final draft.

Kate Seers (Professor, Health Research) contributed to the conceptual design, interpretation and analysis, made important intellectual contributions to the study and approved the final draft.

Nick Allcock (Associate Professor, Nursing) contributed to the interpretation and analysis, made important intellectual contributions to the study and approved the final draft.

Michelle Briggs (Professor, Nursing) contributed to the interpretation and analysis, made important intellectual contributions to the study and approved the final draft.

Eloise Carr (Professor, Nursing) contributed to the interpretation and analysis, made important intellectual contributions to the study and approved the final draft.

JoyAnn Andrews (Researcher, Qualitative Research) contributed to the interpretation and analysis, made important intellectual contributions to the study and approved the final draft.

Karen Barker (Clinical Director, Musculoskeletal Services, and Senior Research Fellow) contributed to the interpretation and analysis, made important intellectual contributions to the study and approved the final draft.
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Appendix 1 Protocol

A META-ETHNOGRAPHY OF PATIENTS’ EXPERIENCE OF CHRONIC NON-MALIGNANT PAIN – REVISED FOLLOWING RECOMMENDATIONS BY BOARD

Aims and objectives

The aim of this study is to:

- Increase our understanding of patients’ experiences of chronic non-malignant pain and therefore have an impact on quality of care.
- Utilise existing research knowledge to improve understanding and thus best practice in patient care.
- Contribute to the development of methods for qualitative research synthesis.

These aims meet the HSR programme objectives.

Objectives

1. To produce a conceptual synthesis of qualitative findings related to chronic non-malignant pain using the methods of meta-ethnography proposed by Noblit and Hare, and developed for use in health research.

2. To contribute to the development of methods for qualitative research synthesis and produce a qualitative synthesis that is rigorous, accessible and relevant to academics, practitioners, patients and policy makers.

This research will increase understanding and knowledge of chronic non-malignant pain, and thus directly inform best clinical practice by providing new understandings regarding patient experience and their treatment. We will contribute to a more patient focused research agenda. A qualitative synthesis would enable policy makers to determine whether or not the treatment for chronic non-malignant pain is meeting the needs of quality improvement as defined by the Department of Health’s report – ‘High quality care for all’ where patient experience is seen as fundamental to quality of care. A greater understanding of patient experience of care has potential to provide new opportunities to deliver services differently and directly influence patient redesign of health services.

There are methodological issues that need to be addressed if qualitative synthesis is to be effectively used to enhance best practice. A systematic search of the qualitative literature is not straightforward. There is a lack of consensus regarding the most appropriate way to judge what should be included in a qualitative synthesis.

Background

Chronic pain has been acknowledged as a condition in its own right, and has become the focus of recent government policy in the UK. Each year over five million people develop chronic pain. As many as 19% of adults in Europe suffer with moderate to severe chronic pain, and 7% have chronic pain that is severe and disabling. Persistent pain may affect more than 50% of older persons living in the community. Pain has a high impact on the individual’s physical, psychological and social wellbeing. For example, 49% of patients with persistent pain experience depression, 25% lose their jobs and 16% feel
their chronic pain is so bad that they sometimes want to die. In terms of cost, musculoskeletal pain may account for 2% of the Gross Domestic Product of Europe.

**Rationale** – Qualitative research addresses a central concern of the NHS – patient experience. Qualitative research aims to understand the experience of illness, and make sense of the complex processes involved. It aims to enrich human discourse and help to generate concepts that allow us to understand behaviour. It can thus lead to substantial improvements in health care and policy decisions by enabling clinicians and policy makers to understand the appropriateness, and meaningfulness of interventions. In particular, by understanding the experience of those with chronic pain clinicians, policy makers and patients can be empowered to make more informed decisions about care. Insights from several meta-ethnographies in health care have contributed to a greater understanding of complex processes such as medicine taking, adherence to treatments for diabetes and use of antidepressants. Excluding qualitative research from evidence based practice may mean that we neglect vital information from decisions related to policy and practice. Syntheses of qualitative research should thus be used alongside those of quantitative research, to underpin policy decisions. Concepts generated from qualitative research synthesis will help researchers, policy makers, clinicians and patients to ask questions that will enhance the validity of subsequent research.

Qualitative findings can help to formulate relevant research questions, identify the components of interventions, understand the outcome of interventions and conflicting results, and to identify barriers to treatment. However, the proliferation of studies exploring the experience of chronic non-malignant pain makes it difficult for clinicians and policy makes to use this knowledge to inform practice and policy, and increases the danger that these findings are ‘doomed never to be visited’. Research findings need to be accessible if they are to have an effect on care and policy. The Cochrane Qualitative Research Methods Group acknowledges the importance of including qualitative findings within evidence based healthcare, and stress that ‘evidence from qualitative studies can play an important role in adding value to systematic reviews for policy, practice and consumer decision-making’. Syntheses of the existing body of qualitative research can also help to identify gaps in knowledge and to target these gaps. To date, there has been no synthesis of qualitative research related to chronic non-malignant pain, and thus the proposed research is timely.

A qualitative synthesis would aim to offer conceptual insights into health experience that could have a direct effect on care. For example, there may be a place for a conceptual theory regarding disability from chronic pain based on the concepts derived from qualitative synthesis. Such a theory could be used to inform the development of ‘risk’ tools for assessment of patients with chronic pain. We know that psychosocial factors seem to predict the outcome of treatment but we do not fully understand why some are disabled by their pain and others are not. Some patients with chronic pain are able to accept their limitations and successfully revise their sense of self and others are not. Although there has been some research exploring adaptation to pain, the role of acceptance has not been fully explored.

There is large body of qualitative research exploring patients’ experience of chronic pain, and although certain themes seem to be consistent, there has been no attempt to systematically search the qualitative literature with an aim to increase our conceptual understanding. Qualitative studies show that patients with persistent unexplained back pain remain committed to the medical model of pain even though this model does not fit their experience. The medical model takes disease to be an objective biomedical category that can be accounted for by a specific etiology. This model also implies an illness trajectory whereby, following diagnosis and treatment, a person’s health is restored. Studies also report that patients feel that they are not believed and may even start to doubt their own experience of pain. These findings are supported by a meta-synthesis of patient experiences of Fibromyalgia. Patients with chronic pain also present a certain moral narrative in order
to legitimize their condition,\textsuperscript{443,449,452,459} and use social comparison to rank themselves in relation to
others.\textsuperscript{442,443,450,453,458} Qualitative studies have also shown the importance of self-identity, yet at the same
time, an acceptance of changes to identity.\textsuperscript{427,454,460}

The aim of qualitative synthesis is to systematically review and integrate the findings of qualitative research in order to increase conceptual understanding. The aim is to make ‘a whole into something more than the parts imply’ [48:28]. This synthesis would be accessible to health professionals, researchers, policy makers and patients, thus having a far-reaching impact on the processes of health care. Policy makers and clinicians need to draw on various sources of evidence in order to improve the quality of patient care.\textsuperscript{31}

Qualitative synthesis can thus add value to evidence on the effectiveness of interventions.\textsuperscript{21} Synthesis of qualitative research aims to move beyond narrative description and generate ‘theories that can inform the development of interventions’,\textsuperscript{31} thus informing the implementation of more appropriate and effective patient focused interventions.\textsuperscript{21,60}

Need

This research meets the classifications of research need outlined by the NIHR Health Services Research Programme. In particular, a meta-ethnography aims to build on exiting work and generate new knowledge.

1. Building on existing work. One of the specific aims of this study is to utilise existing research knowledge to improve understanding and thus best practice. Specific to meta-ethnography is the aim of making a whole that is greater than the sum of its parts,\textsuperscript{20} in order to generate a new conceptual understanding based on the comparison of multiple accounts. A meta-ethnography of chronic non-malignant pain will therefore enhance and add value to the body of existing knowledge in the field of pain.

2. Capacity to generate new knowledge. A qualitative synthesis would offer a greater conceptual understanding of patients’ experiences and offer insights into effective care. This meta-ethnography would help us to identify gaps in the knowledge that are not addressed by existing research and therefore add to the validity of further research in this area. For example, we have said that certain patients are able to successfully revise their sense of self and others are not.\textsuperscript{427,463} This study is likely to offer conceptual insights into this process.\textsuperscript{464}

3. Health need. Chronic pain has a huge impact on the quality of life of adults in the UK,\textsuperscript{6,7,11,12,441} and this is recognised in recent UK policy documents.\textsuperscript{6,15,16} The research may be used to inform the development of quality of life tools to be used in chronic pain. This research may also contribute to the dialogue with patients about their chronic pain and how policy makers and clinicians can meet their needs. It could thus have a direct impact on quality of care as outlined in ‘High Quality Care for all’.\textsuperscript{440}

4. Expressed need. A greater conceptual understanding of chronic pain is highly relevant and has been highlighted as important in recent policy documents in the UK. The Chief Medical Officers report in 2009, ‘Pain breaking through the Barrier’\textsuperscript{16} identifies chronic pain as important to NHS policy. In addition to this, an NHS report on ‘getting to GRIPS with chronic pain in Scotland’\textsuperscript{15} identified a need to improve knowledge about chronic pain. Chronic non-malignant pain is also recognised as one of the key areas for improvement by the Welsh Assembly Government.\textsuperscript{16} Specifically, the Chief Medical Officer recommended that training in chronic pain should be included in the curricula of all healthcare professionals.\textsuperscript{6} This meta-ethnography may be used to inform education initiatives related to chronic pain.

5. Sustained interest and intent. Chronic pain has been highlighted as a future priority for NHS policy.\textsuperscript{6} If patients with pain are managed more effectively this may reduce unnecessary interventions such as emergency department visits, hospital admissions, secondary and tertiary referrals and inappropriate diagnostic testing. Conceptual understanding may contribute to the development of care pathways for chronic non-malignant pain. Poor quality pain management in the elderly and in care home residents has been highlighted by the Patients Association.\textsuperscript{181} This finding is of particular social importance in
view of the ageing population in the UK and the potential effect on demand for pain services. Demand for the treatment of chronic pain is likely to increase with increasing age.

6. Organisational focus consistent with HSR mission. This study will inform the organisation of appropriate services for chronic pain. There is currently no synthesis of qualitative evidence available to understand patients’ views of the feasibility and acceptability of interventions for chronic pain. This is fundamental as qualitative research has been highlighted as important in informing health care policy and best practice.\textsuperscript{21,56}

7. Generalisable findings and prospects for change. Whilst qualitative research is contextual and therefore can be complex to apply to decision making processes, qualitative synthesis can be used to generate findings that can more clearly inform practice. We have given the example of how findings could be used to inform the development of ‘risk’ tools for assessment of patients with chronic pain. Similarly, we have suggested the findings could be used to inform the development of chronic pain care pathways within the NHS, thus having a direct effect on decision-making regarding treatment.

Method

A figure outlining the research process is shown below.

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{research_process.png}
\caption{Flow chart of research process.}
\end{figure}

Search strategy

\textit{Initial scope of literature} – We undertook an initial search of the published literature in order to determine the scope of the meta-ethnography and to refine the research question. Using MEDLINE from 1950 to the present, we used the ‘Clinical Query’ limit to search for articles filtered as using qualitative research methods. We used the widest scope available in this option. Using ‘pain’ as our key word within title or abstract, we identified 1200 articles in English. One of the research team (FT) read through the titles and identified 206 as qualitative studies pertinent to chronic non-malignant pain. A further 31 were excluded after reading through the abstracts, leaving 175. The number of studies for each condition is shown in Table\textsuperscript{1}. Searching for qualitative studies can be problematic,\textsuperscript{51} and we did not expect to identify all available studies by conducting this search only in MEDLINE. Interestingly, the results for Fibromyalgia (FM) were comparable to a recent meta-synthesis of qualitative findings in FM.\textsuperscript{429} However, we know that the search did not identify all studies related to back pain. The search demonstrated that there is a body of knowledge available for a meta-ethnography of patient experience of chronic non-malignant pain.

We will conduct a systematic search of the qualitative literature on patient experiences of chronic non-malignant pain, using the guidelines provided by the Centre for Reviews and Dissemination
The research team will include a full time information scientist for 6 months to help develop the search strategy in consultation with the research team. The information scientist will be responsible for performing the search and retrieving the literature with guidance from the research team. The progress of the search will be discussed amongst the team at regular project team meetings. Using several search strategies can facilitate optimal retrieval of relevant articles, and the search strategy will include the following:

(a) A systematic search of relevant databases in order to identify all qualitative studies exploring patients’ experiences of chronic non-malignant pain. Databases will include CINAHL, EMBASE, MEDLINE, OVID, PsychINFO, as indicated by CRD guidelines. The search aims to include all patients aged 18 and over, and all available dates.

(b) We will follow up references from identified papers.

(c) We will search the indexes of specific journals identified by the research team as known to report the findings of qualitative studies in depth (e.g. Social Science and Medicine, Qualitative Health Research, Journal of Advanced Nursing) for the previous 10 years. Hand-searching journals is an important strategy for comprehensively identifying relevant qualitative studies. A Cochrane Methodology Review found that hand-searching is necessary in order to identify relevant studies. A list of journals will be developed at an early research team meeting and refined as the search strategy is developed. We will also search for work by authors identified as having done research in this area.

(d) Personal Communication. Each member of the team is familiar with the literature on chronic pain and will use contacts to further widen the search.

(e) Grey literature

Once relevant articles have been identified, the process as outlined by Sandelowski and Barroso will be used to exclude articles that do not meet the inclusion criteria. This is shown in Figure 1. A detailed description of the search strategy and reasons for excluding studies will be kept.
Strategy for determining inclusion of studies

Although methods for determining the quality of qualitative research have been suggested, there is currently no consensus and the use of quality criteria is widely debated. Although structured checklists may not produce consistent judgements about quality in qualitative research, they may be useful in providing a focus for consensus discussions. Some argue that quality appraisal should not be used to exclude studies from qualitative synthesis. It could be argued that the determination of quality for inclusion in a meta-ethnography is determined by its ability to be translated and to enhance the development of conceptual categories. To be utilised within a meta-ethnography, studies must therefore provide sufficient description of concepts to allow translation.

To assist with appraisal for inclusion, the team will use questions developed by the critical appraisal skills programme (CASP) that have been adapted and used for appraising quality of studies for meta-ethnography. We will use the initial screening questions used in these studies:

1. Does this paper report on findings from qualitative research in people aged 18 and over and did that work involve both qualitative methods of data collection and analysis?
2. Is this research relevant to the synthesis?

This process will be carried out independently by two people, any disagreement will be discussed, and where required will be reviewed by a third person. All members of the team have experience of appraising and conducting qualitative research. If no consensus is reached, the paper will be included. Following quality assessment, data will be extracted and included on a data extraction form developed by the research team.
Each team member will also categorise papers as suggested by Dixon-Woods. Is this paper:

1. A ‘key paper’ (KP) – ‘conceptually rich and could potentially make an important contribution to the synthesis’
2. A ‘satisfactory paper’ (SAT)
3. A paper that is irrelevant to the synthesis (IRR)
4. A paper that is methodologically fatally flawed (FF)

This method of determining inclusion has been used in a recent meta-ethnography, and will allow us to compare two methods of appraisal for inclusion into meta-ethnography.

**Design and theoretical/conceptual framework**

This study will use the methods of meta-ethnography as proposed by Noblit and Hare. Various methods for synthesizing the results of qualitative research have been suggested. Meta-ethnography is an interpretive form of knowledge synthesis, as opposed to the aggregate form more commonly used in the meta-synthesis of quantitative research. It thus aims to develop new conceptual understandings. Meta-ethnography is currently the most frequently used method of qualitative synthesis used in health care research, and provides one of the most explicit methods of synthesising qualitative studies. It has been suggested that we need to interpret the findings of meta-ethnography for policy makers, the research team will provide an accessible interpretation and make suggestions for policy and practice, and policy makers will be part of the steering group to assist with this process. Meta-Ethnography has been used to synthesis qualitative findings in several areas of health care. For example, Malpass et al. conducted a meta-ethnography which aimed to more fully understand patients non-adherence to anti-depressants. This study shows how meta-ethnography can have a direct effect on clinical practice by suggesting ways in which general practitioners can facilitate concordant relationships with patients. In a similar way, Pound et al. use meta-ethnography to synthesise qualitative studies of medicine taking, and suggest that research should focus on developing ways of making medicine-taking safe.

Analysis involves translating the concepts of qualitative research findings, and exploring how these translations are related to each other, thus ‘translating qualitative studies into one another’. The process of translation involves reading and re-reading accounts and constantly comparing the concepts of the original texts in order to ensure that the translations are grounded in the original studies. This is comparable to the constant comparative method of Grounded Theory. Constant comparison allows us to see the similarities and differences and thus generate new concepts. Through comparing and translation, the synthesis aims to provide further conceptual understanding of a particular phenomenon. Once formulated, translations can be, reciprocal (in agreement), refutational (disagree), or brought together to form a line of argument. Translations are integrated into a conceptual interpretation that deepens understanding of the phenomenon. It may be more useful to think of translation and integration as ongoing and simultaneous processes, rather than sequential acts. As in other qualitative research methods, data collection does not precede analysis but informs it. The process of meta-ethnography involves continually returning to the ‘data’ in order to ensure that the translations are recognisable and convey the meaning of the source research.
Contribution to collective research effort and research utilisation

Outputs
We anticipate the following outputs from this research:

1. Publication in high impact journals related to:
   (a) Chronic pain
   (b) Research methodology.

2. A conceptual framework for chronic non-malignant pain. This would help ensure that domains important to the patients are addressed in the complex management of chronic non-malignant pain.

3. A summary of the research for practitioners, policy makers and patients.

4. Identification of research questions not currently addressed by body of qualitative knowledge.

5. Dissemination of research utilising technology such as Podcasts.

Methods of dissemination
The Steering Group will include members with access to practice, policy and patient arenas to advise on appropriate dissemination. The research team have wide experience of research dissemination and are active in the field of chronic pain.

We would expect research findings to be disseminated through

1. PODCAST/DVD production. The Centre for Qualitative Research at Bournemouth University has a strand of ‘Performatve Science’ which works with qualitative researchers to produce visual outputs. (www.bournemouth.ac.uk/cqr/rescqpss.html.) It is powerful in the ‘promotion of knowledge’ beyond traditional outputs.

2. Key high impact journals.

3. International conferences e.g. International Association for the Study of Pain (IASP), European Federation of IASP Chapters (EFIC).

4. Patient groups, including the British Pain Society Patient Liaison.

5. Special interest groups (British Pain Society and IASP).

6. NHS Evidence.

7. Electronic open source publication via BioMed Central.

8. Linking a summary of report into key patient websites.

Plan of investigation and timetable
A plan of the study with monthly schedule has been drawn up and is shown below.
### Metaethnography Chronic Pain: Project Time Plan with key phases, meetings, progress reports to HSR and key milestones

| Date  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Key Phases | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Develop search strategy and systematic search | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical appraisal and data extraction ongoing | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Translating accounts and developing themes ongoing | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Synthesis of translations and development of lines of argument | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Writing up and preparation of final report | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initial search completed and set up to rerun | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete initial translation of accounts | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line of argument developed and prepared for write up | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rerun search & integrate findings | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DVD production | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Subject to changes as required by the project.

* SG = steering group.
* PP = patient participation in analysis.
* PT = project team.
Ethics

This meta-ethnography would not involve patient participants and does not require ethical approval.

Project management

There will be a clear project documentation system, with careful version control. This will be developed by the PI and agreed by the project team at their first meeting. It will include a detailed Gantt chart; roles and responsibilities of each project team member; a risk register; a brief communication strategy setting out principles for communication, updating and discussion within the project team; a dissemination strategy and reference management plan using Endnote. The PI will be responsible for the day-to-day running of the study, and the project team will meet monthly using a combination of face-to-face meetings, teleconferencing and Skype. Progress against agreed objectives and budget monitoring will be part of each meeting. A steering group will be established and meet three times during this study to offer advice to the project team.

Service users

Steering group membership

1. A member of the Nuffield Orthopaedic Centre, Patient Research Engagement Forum (PREF) who has recent experience of treatment for non-malignant pain.
2. A patient with an interest in research will be recruited from UNTRAP based at Warwick University (www2.warwick.ac.uk/fac/cross_fac/healthatwarwick/untrap/). UNTRAP is a partnership between users of health and social care services and carers, the University of Warwick and the NHS. UNTRAP aims to support the involvement of service users and carers in teaching and research.
3. Beverly Collett [past Pain Society President], Assistant Medical Director, Consultant in Pain Management & Anaesthesia, Leicester Royal Infirmary NHS Trust, who has been actively involved in policy decisions for chronic pain, has agreed to be part of the steering group.
4. Department of Health representative with an interest in patient and public involvement.
5. Two members of NHS staff working in chronic non-malignant pain.

The steering group will meet a minimum of 3 times spread throughout the study (see study timetable) and aims to provide advice from a broad perspective.

2. Involvement in Analysis – The UNTRAP user will also be active in the synthesis stage of the research (see study timetable). This person will attend 3 key analysis meeting and contribute to the conceptual development of this study. This person will paid at the agreed UNTRAP rate.

Expertise and justification of support required

The main costs for this proposal will be to support the research team. Full details of costing are given in the application form. We realise the likely number of papers will be challenging and so have constructed this team taking this into account. We will allocate each paper to two members of the research team in a rotational system, so that each researcher has the opportunity to work with every member of the team. This will allow a broader perspective on appraisal and interpretation of each paper. We know that meta-ethnography is feasible for studies incorporating smaller numbers of studies. A meta-synthesis incorporating a large number of studies will contribute to the understanding of the feasibility of meta-ethnography for use in areas of healthcare where a large body of qualitative knowledge exists.
**Research team**

**Dr Francine Toye (FT)** – FT will be responsible for overall project management and coordination of the team. She will work closely with the research fellow and information scientist to develop the search strategy and data collection methods. She will be financed to work on the project 1.5 days per week (0.3FTE) for the duration of the study, and will support the research fellow during this time. She will work jointly with the other team members to translate and synthesise the studies and to disseminate findings. FT is familiar with the literature in this field and has experience of qualitative analysis. She has a social science degree (2.1) in Anthropology, awarded by Cambridge University, and has a continued interest in medical anthropology. For her PhD, FT used interpretative phenomenological analysis (IPA) to explore patient’s perceptions of health care need (total knee replacement). During her doctoral and post-doctoral qualitative research FT has developed the skills needed to identify and analyse qualitative data. She uses IPA and grounded theory in her own research and has attended courses in IPA analysis and qualitative synthesis and meta-ethnography. She has a recent qualitative publication related to patients’ experience of pain [80] which used grounded theory to explore how patients with persistent unexplained pain interpret and utilise the biopsychosocial model. She also teaches qualitative research methods to research colleagues within her NHS Trust. Her current role also involves consulting with and supervising clinicians involved in qualitative research. FT is currently involved as a qualitative research consultant at the clinical trials unit (University of Warwick).

**Professor Kate Seers (KS)** – KS has extensive qualitative research experience, is supervising seven qualitative PhDs and has supervised eight qualitative PhDs to completion. One of these was a complex meta-ethnography, a publication from which is currently under review. KS’s topic expertise is within pain management where she has a detailed knowledge and has published widely. She has also undertaken and published two quantitative systematic reviews in pain management, and is feedback editor of the Cochrane Pain, Palliative and Supportive Care Group, so is used to extracting data and assimilating large amounts of data. KS also has extensive experience in leading large research teams and working collaboratively. KS will be responsible for contributing to the development of the meta-ethnography, and working with the team to extract themes and translate concepts across studies.

**Dr Eloise Carr (EC)** – EC is an experienced pain and mixed methods researcher spanning over twenty years. All her research studies have involved a qualitative element and she would have access to the international ‘Centre for Qualitative Research’ in the School of Health & Social Care at Bournemouth University. She has supervised doctoral students to successful completion (3 in qualitative methods) and currently supervises six students in pain research. Her most recent grant (Health Foundation £456K) has focused on the management of chronic low back pain in primary care and she has considerable subject knowledge of the topic area. EC is experienced in leading complex projects and working collaboratively. EC will work with other team members to translate and synthesise the studies and contribute to dissemination of the outputs.

**Dr Nick Allcock (NA)** is director of the Nottingham Centre for Evidence Based Practice Nursing, Midwifery and Physiotherapy a collaborating centre of the Joanna Briggs collaboration and has been trained in the process of qualitative research synthesis. Clinically involved in the management of chronic pain, he has planned and completed qualitative studies into patient experiences of chronic pain. NA works in the School of Nursing, Midwifery and Physiotherapy, and is director of the MSc in research methods. He has successfully supervised PhD and Masters Dissertations.

**Michelle Briggs (MB)** MB has broad experience in systematic reviews. She is an author of a Cochrane systematic review[467] and has served as a Cochrane Wounds Group editor from 2003–2008 and is currently a reviewer for The Cochrane Pain, Palliative Care and Supportive Care Collaborative Review Group. She has completed syntheses of qualitative research during her NIHR post doctoral training using Joanna Briggs QARI methodology. The Cochrane Qualitative Methods group recently asked permission to use the publication of this synthesis[468] as an exemplar of qualitative synthesis in a qualitative workshop at the Singapore Cochrane Colloquium Oct 2009. She also has supervised others in mixed methods reviews of
quality of life issues in pressure ulcers using a combined synthesis of qualitative and quantitative research based on Bayesian synthesis methods involving the generation of a prior distribution of likely factors and their relative importance and using content analysis to generate common categories and themes from findings.469

Dr Karen Barker (KB) is the Clinical Director and research lead for the rehabilitation arm of the NIHR supported Musculoskeletal Biomedical Research Unit a collaboration between the Nuffield Orthopaedic Centre NHS Trust and Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Science at University of Oxford. She has experience in conducting research trials with patients with chronic back pain and has participated in a number of systematic reviews. She has supervised PhD and MPhil students to completion and is currently supervising PhD and MPhil students.

Collaborators
Information Scientist (IS) – Full time for 6 months. This will allow time to develop and refine the search strategy within the team. The role of the IS would be to work with the team to develop and refine the search strategy, to identify and retrieve all relevant articles. The quality of this type of synthesis relies on optimising retrieval, and this role is important to the quality of output.

Research Fellow (RF) – 0.5 FTE post (2.5 days) over the 24 months. The research fellow would work with the team in all stages of the project (quality appraisal, data extraction, analysis).

Other costs
Include travel for team and servicer users to attend meetings, NVivo to assist analysis and dissemination costs. These are broken down in detail within the application form.

Building research capacity
This project will provide FT the opportunity to develop her post doctoral experience to undertake a large synthesis of qualitative research within an experienced team of qualitative researchers. With the proliferation of qualitative research findings, the ability to synthesise findings is likely to become an increasingly important facet informing best clinical practice.

Planned or active research grants
We have not planned, nor are in receipt of any other research grants for this project.

History of past or existing NIHR programme research
Current

MB Co-Investigator on NIHR Research for Patient Benefit Grant: October 2009–October 2012 PI SJ Closs. Towards culturally competent pain management for older people £239,000

MB Co-Investigator on NIHR Programme Grant for Applied Research. PURPOSE Pressure UlceR Programme of ReSSearch. Feb 2008–Feb 2013 PI J Nixon £1,995,549
MB Principal Investigator NIHR Post Doctoral Award Jan 2006–June 2010. Self-management for people with painful leg ulcers: the development of a complex intervention using qualitative synthesis of research, realistic synthesis and grounded theory. £231,000

Completed


KB Principal investigator on NIHR Research for Patient Benefit Grant: PB-PG-0407-13216 Rehab after RHA. Evaluation of a specific physiotherapy programme following resurfacing arthroplasty – is it more effective at improving function and muscle strength than standard rehabilitation? November 2008–October 2011 £232,046.
Appendix 2  Search syntax for meta-ethnography of pain

MEDLINE

1. RESEARCH, QUALITATIVE/
2. ATTITUDE TO HEALTH/
3. INTERVIEWS AS TOPIC/
4. FOCUS GROUPS/
5. NURSING METHODOLOGY RESEARCH/
6. LIFE EXPERIENCES/
7. (qualitative OR ethno$ OR emic OR etic OR phenomenolog).mp
8. (hermeneutic$ OR heidegger$ OR husserl$ OR colaizzi$ OR giorgi$ OR glaser OR strauss).mp
9. (van AND kaam$ OR van AND manen OR constant AND compar$).mp
10. (focus AND group$ OR grounded AND theory OR narrative AND analysis OR lived AND Experience$. OR life).mp
11. (theoretical AND samp$ OR purposive AND samp$ OR ricoeur OR spiegelberg$ OR merleau).mp
12. (field AND note$ OR field AND record$ OR fieldnote$ OR field AND stud$).mp;
13. (participant$ adj3 observ$).mp
14. (unstructured AND categor$ OR structured AND categor$).mp
15. (maximum AND variation OR snowball).mp
16. (metasynthes$ OR meta-synthes$ OR metasummar$ OR meta-summar$ OR metastud$ OR meta-stud$).mp
17. “action research”.mp
18. (audiorecord$ OR taperecord$ OR videorecord$ OR videotap$).mp
19. exp PAIN/
20. exp ARTHRITIS, RHEUMATOID/
21. exp FIBROMYALGIA/
22. exp OSTEOARTHRITIS/
23. MUSCULOSKELETAL DISEASES/
24. exp ARTHRITIS/
25. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18
26. 19 OR 20 OR 21 OR 22 OR 23 OR 24
27. 25 AND 26
28. cancer.mp
29. 27 NOT 28
30. 29 [Limit to: English Language and Humans and (Age Groups AllAdult 19 plus years)];

Allied and Complementary Medicine Database

1. exp MUSCULOSKELETAL DISEASE
2. exp LOW BACK PAIN/ OR exp BACK PAIN/ OR exp MUSCULOSKELETAL PAIN/
3. exp ARTHRITIS/
4. exp ARTHRITIS RHEUMATOID/
5. exp FIBROMYALGIA/
6. exp PAIN/
7. EXPERIENCE.ti,ab
8. ATTITUDE.ti,ab
9. QUALITATIVE.ti,ab
10. (qualitative OR ethno$ OR emic OR etic OR phenomenolog).mp
11. (hermeneutic$ OR heidegger$ OR husserl$ OR colaizzi$ OR giorgi$ OR glaser OR strauss).mp
12. (van AND kaam$ OR van AND manen OR constant AND compar$)
13. (focus AND group$ OR grounded AND theory OR narrative AND analysis OR lived AND experience$ OR life).mp
14. (theoretical AND samp$ OR purposive AND samp$ OR ricoeur OR spiegelberg$ OR merleau).mp
15. results.
16. (field AND note$ OR field AND record$ OR fieldnote$ OR field AND stud$).mp
17. (participant$ adj3 observ$).mp; 397 results.
18. (unstructured AND category OR structured AND category).mp
19. (maximum AND variation OR snowball).mp
20. (metasynthesis$ OR meta-synthesis$ OR metasummar$ OR meta-summar$ OR metastudy$ OR meta-study$).mp
21. “action research”.
22. PATIENT ACCEPTANCE OF HEALTH CARE/
23. INTERVIEWS/ OR interview$.af
24. OR 1 OR 2 OR 3 OR 5 OR 6 OR 8
25. 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 34
26. 25 AND 26
27. child$.af
28. 27 not 30
29. cancer.ti,ab
30. 31 NOT 32 [Limit to: (Languages English)]

Cumulative Index to Nursing and Allied Health Literature

1. qualitative OR ethno$ OR emic OR etic OR phenomenology$
2. hermeneutic$ OR heidegger$ OR husserl$ OR colaizzi$ OR giorgi$ OR glaser OR strauss.mp
3. van AND kaam$ OR van AND manen OR constant AND compar$.mp
4. focus AND group$ OR grounded AND theory OR narrative AND analysis OR lived AND experience$
5. OR life AND experience$.mp
6. theoretical AND sampl$ OR purposive AND sampl$ OR ricoeur OR spiegelberg$ OR merleau.mp
7. field AND note$ OR field AND record$ OR fieldnote$ OR field AND stud$.mp
8. participant$ adj3 observ$.mp
9. nonparticipant$ adj3 observ$.mp
10. unstructured AND category OR structured AND category.mp
11. maximum AND variation OR snowball.mp
12. exp QUALITATIVE STUDIES/
13. exp PHENOMENOLOGY/ OR exp ETHNOGRAPHY/
14. exp OBSERVATIONAL METHODS/
15. exp LIFE EXPERIENCES/
16. exp ETHNOLOGICAL RESEARCH/
17. exp ETHNONURSING RESEARCH/ OR exp FOCUS GROUPS/
18. exp GROUNDED THEORY/ OR exp PHENOMENOLOGICAL RESEARCH/
19. exp QUALITATIVE VALIDITY/ OR exp PURPOSIVE SAMPLE/ OR exp theoretical sample/
20. exp FIELD STUDIES/ OR exp FIELD NOTES/
21. exp CONTENT ANALYSIS/ OR exp THEMATIC ANALYSIS/
22. metasynthesis$ OR meta-synthesis$ OR metasummar$ OR meta-summar$ OR metastudy$ OR meta-study$.mp
23. 24. exp OSTEOARTHRITIS/
25. exp ARTHRITIS/
26. exp FIBROMYALGIA/
27. exp DIAGNOSIS, MUSCULOSKELETAL/ OR exp MUSCULOSKELETAL DISEASES/ OR exp MUSCULOSKELETAL SYSTEM/
28. exp ARTHRITIS, RHEUMATOID/
29. cancer.ti,ab
30. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21
32. exp CHRONIC PAIN/ OR exp PAIN CLINICS/ OR exp BACK PAIN/
33. 25 OR 26 OR 27 OR 29 OR 31 OR 34
34. 34 AND 35
35. 36 NOT 32 Limit to: (Language English) and (Age Groups All Adult)

PsycINFO

1. ("semi-structured" OR semistructured OR unstructured OR informal OR "in-depth" OR indepth OR "face-to-face" OR structured OR guide OR guides) adj3 (interview* OR discussion* OR questionnaire*).mp
2. (focus AND group* OR qualitative OR ethnograph* OR fieldwork OR "field work" OR “key informant”).mp
3. exp QUALITATIVE RESEARCH/ OR exp INTERVIEWS/ OR exp GROUP DISCUSSION/ OR qualitative study.mp
4. exp CONTENT ANALYSIS/
5. exp LIFE EXPERIENCES/
6. exp PHENOMENOLOGY/
7. exp ETHNOGRAPHY/
8. exp BACK PAIN/ OR exp CHRONIC PAIN/ OR exp PAIN/ OR exp PAIN MANAGEMENT/
9. exp MUSCULOSKELETAL DISORDERS/ OR exp MUSCULOSKELETAL SYSTEM/
10. exp ARTHRITIS/ OR exp RHEUMATOID ARTHRITIS/
11. exp ARTHRITIS/ OR exp KNEE/ OR exp PAIN/ OR exp CHRONIC PAIN/ OR exp HIPS/ OR exp CHRONIC PAIN/ OR exp PAIN MANAGEMENT/ OR exp RHEUMATOID ARTHRITIS/
12. exp FIBROMYALGIA/
13. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
14. 11 or 12 or 13 or 14 or 15
15. cancer.mp
16. 16 AND 17
17. 19 AND 18
18. 20 [Limit to: English Language and (Age Groups 300 Adulthood age 18 yrs and older)]

EMBASE

1. (hermeneutic$ OR heidegger$ OR husserl$ OR colaizzi$ OR giorgi$ OR glaser OR strauss).mp
2. (van AND kaam$ OR van AND manen OR constant AND compar$).mp
3. (focus AND group$ OR grounded AND theory OR narrative AND analysis OR lived AND experience$ OR life).mp
4. (theoretical AND samp$ OR purposive AND sampl$ OR ricoeur OR spiegelberg$ OR merleau).mp
5. (participant$ adj3 observ$).mp
6. (unstructured AND categor$ OR structured AND categor$).mp
7. (maximum AND variation OR snowball).mp
8. (metasynthes$ OR meta-synthes$ OR metasummar$ OR meta-summar$ OR metastud$ OR meta-study$).mp
9. (metasynthes$ OR meta-synthes$ OR metasummar$ OR meta-summar$ OR metastud$ OR meta-stud$).mp
10. “action research”.mp
11. (audiorecord$ OR taperecord$ OR videorecord$ OR videotap$).mp
12. (field AND note$ OR field AND record$ OR fieldnote$ OR field AND stud$).mp
13. (qualitative OR ethno$ OR emic OR etic OR phenomenolog).mp
14. exp QUALITATIVE ANALYSIS/ OR exp QUALITATIVE RESEARCH/
15. exp PHENOMENOLOGY/
16. exp GROUNDED THEORY/ OR exp NURSING METHODOLOGY RESEARCH/
17. exp EXPERIENCE/
18. 1 or 2 or 3 or 4 or 11 or 5 or 6 or 7 or 8 or 9 or 10 or 13 or 14 or 15 or 16 OR 17
19. exp CHRONIC PAIN/ OR exp HIP PAIN/ OR exp KNEE PAIN/ OR exp LOW BACK PAIN/ OR exp 20.
   MUSCULOSKELETAL PAIN/ OR exp PAIN CLINIC/
20. exp OSTEOARTHRITIS/
21. exp RHEUMATOID ARTHRITIS/
22. exp FIBROMYALGIA/
23. 19 or 20 or 21 OR 22
24. 18 AND 23
25. cancer.mp
26. 24 NOT 25
27. 25 [Limit to: English Language and (Human Age Groups Adult 18 to 64 years or Aged 65+ years)]

Health Management Information Consortium
1. exp QUALITATIVE ANALYSIS/ OR exp QUALITATIVE RESEARCH/ OR exp QUALITATIVE TECHNIQUES/
2. exp NURSING RESEARCH/
3. exp INTERVIEWS/ OR interview$.mp
4. phenomenol$.mp
5. exp BACK PAIN/ OR exp LOW BACK PAIN/ OR exp PAIN/ OR exp PAIN CLINICS/ OR exp PAIN
   MANAGEMENT/
6. Chronic ADJ pain.mp
7. exp ARTHRITIS/ OR exp RHEUMATOID ARTHRITIS/
8. exp OSTEOARTHRITIS/
9. exp FIBROMYALGIA/
10. exp MUSCULOSKELETAL SYSTEM DISEASES/
11. 1 or 2 or 3 or 4
12. 5 or 6 or 7 or 8 or 9 or 10
13. 11 AND 12
14. cancer.mp
15. 13 NOT 14
16. child$.mp
17. 15 not 16 [Limit to: (Language Type English)]
Appendix 3 Second-order constructs

Musculoskeletal second-order constructs

Aegler 2009:312 challenge to finish performance

Frequently not able to finish a performance and needed strong intent. However, occupations completed even if body racked by pain as this brought a sense of satisfaction. Sometimes completed task in spite of potential consequences and increased pain (e.g. because of social pressure, reminded of old self, sick of interruptions).

Aegler 2009:312 performing as an ongoing attraction

Describes how keeping occupied is important; organise and adapt occupations to remain active. Participants engaged in joyful occupations when they felt low levels of pain to be able to be attracted by their doing and not go off the things they loved to do. However enjoying an occupation did not have an impact on the pain.

Aegler 2009:312 taking breaks not easy

Interruption became a pattern of behaviour. Difficult to switch off emotionally and cognitively during breaks. Organised performance around breaks. Three strategies to manage interruptions:

a. constant awareness of body in order to know when to take a break. This reduced concentration on the activity itself (I am not really present) and therefore difficult to attain quality of activity

b. fixed day schedule; planned activities and breaks. This could be frustrating if couldn’t comply with it

c. split goals into sub goals so could still enjoy a result.

Afrell 2007:372 acceptance typologies – active process of change

Pro-active decision to make adaptations. ‘a change from an earlier, more or less, total lack of body awareness to a relation where the body is looked upon as a speaking partner and a teacher. In this interplay, the subjects have grown as individuals and have begun to look at their future with optimism, although they know it will require great effort’ (p. 295).

Afrell 2007:372 acceptance typologies – hope and resignation

Self; the profound change of life conditions imposed by constant pain, puts the subject into a state of ambivalence. Oscillate between accepting and refusing the aching body: hope/despair. Ambiguous relationship with body; listen to body/shut it off. Acceptance is a process punctuated with bouts of fighting against pain and giving-up of hope. Balance returns as one realises that acceptance of pain is the only way forward.

Afrell 2007:372 acceptance typologies – rejecting the body

‘Integrating the aching body is totally impossible. The ache is neither possible to comprehend, nor accept, and it is unfair. The body is an enemy . . . there is a tiny little hope of recovery’ (p. 294). Rejection of body makes it disconnected from the self and self-esteem diminished.
Afrell 2007:372 acceptance typologies – surrendering to fate

‘Listening to the signals of the body comes quite naturally in everyday life. There is a sensitive cooperation between self and body’ (p. 293). Come to accept pain and the unpredictability of the body as part of life. Acceptance of aching body. Imagery of the body being broken into pieces by pain but brought together as a whole by sheer acceptance of, and adaptation to, the unpredictability of pain.

Allegretti 2010:313 goal to reduce pain

Patients described primary goal to reduce pain (versus physician which was to improve function). Patients described their frustration at the lack of pain relief and questioned their doctors’ understanding that their pain was ‘real’. Felt that physicians were unable to effectively treat pain and physician blocked prescription of pain medication for fear of addiction [this differs from other studies? USA].

Allegretti 2010:313 importance of diagnosis

Patients continued to seek a biomedical test for their pain (versus physician). Discouraged by negative test results.

Allegretti 2010:313 biomedical versus biopsychosocial

Patients adhered to biomedical explanatory model and emphasised the concrete physical explanations [versus physician who used bio-psychosocial model].

Bair 2009:314 barriers to self-management – fear of hurt

Fear of increased pain – acute fear of aggravated pain if one exercises.

Bair 2009:314 barriers to self-management – GP just describes painkillers

No instruction given in pain self-management strategies from primary care physicians, instead physicians almost exclusively relied on analgesics to treat pain.

Bair 2009:314 barriers to self-management – lack of social support

Lack of understanding and encouragement at home and at work is a barrier to self-management.

Bair 2009:314 barriers to self-management – pain

Though desire for activity may be strong, pain imposes limitations to exercising.

Bair 2009:314 facilitators – relieve depression

Relief of depression – improved mood, ‘mental focus’, motivation, and a more positive outlook that all contributed to patients being able to better manage their pain.

Bair 2009:314 facilitators – social comparison

Comparing oneself with others – others patients perceived as worse off (in greater pain) than themselves bolstered ability to not dwell on one’s own pain so much and put their pain in perspective.
Bair 2009: barriers to self-management – strategies do not work

Difficulty in doing the exercises and experiencing exercises as ineffective also a barrier. Why do it if it does not work?

Bair 2009: barriers to self-management – stress and depression

Depression and stress contribute to lack of motivation to undertake self-management.

Bair 2009: facilitators – support of others

Support of others; empathy, encouragement, understanding and cheer from family, friends, programme care workers and pets buttressed patients against the effects of their pain, while enabling and sustaining participation.

Campbell 2007: back to square one

Feel entrapped in a medical system where GP is gatekeeper to other treatments. Reticent to re-engage with a system that previously had little to offer, but things may have moved on now. Feel that a cure (for something so simple) is now possible and should be made available. Tenacity rather than acquiescence evident (versus Illich).391

Campbell 2007: future and past

Sense of hopelessness for future. Feelings of uselessness attributed to the dependency that participants felt would naturally ensue as their pain became increasingly intractable.

Campbell 2007: getting something done

The reason sufferers pursue treatments or interventions with such a short-lived effect, often at great expense to themselves, is the belief that at least something is being done to alleviate the pain. Something has to be done; having ‘something done’ seen as an ACTIVE endeavour inherent in medical model (even if results short lived). Inability of health-care professionals to find cure is seen as inactivity on their part. There is a responsibility to ‘do something’ to get rid of pain. Metaphors of body as machine used which reinforce dualism of mind and body.

Campbell 2007: health professionals (allied)

All sought help from alternative or complementary practitioners and were optimistic about the outcome. Felt that other these knew more about pain than the medical profession and that failure of treatment was due to it not working ‘for them’ rather than limitation of the treatment itself. Practitioner seen as ACTIVE rather than PASSIVE (medics).

Campbell 2007: importance of self

Don’t let it beat you; persevere despite pain. Here expectations were focused towards individual ability to persevere despite the pain and what they could do themselves. However pain has negative impact on important relationships which leads them to direct energies further towards pursuit of treatment and cure.
Campbell 2007: unmet expectations

Patients expect an explanation, diagnosis, treatment and cure but this is not forthcoming. Leads to frustration and anger at impotence of medical system. Feel that they are not believed because of invisibility of pain; seek to make invisible visible in order to legitimise pain. They have failed a medical test. Anger and frustration at the perceived ineptitude of the medical profession was evident. Leads to engendering personal remedies.

Campbell 2008: dependence and social withdrawal

Feelings of dependence dominated this theme with the result that participants chose to withdraw from their social circles rather than to be perceived as a complaining ‘back bore’ or ‘wet weekend’. Image here of growing dependence but a desire not make it noticeable or to complain. Felt accepting help was demeaning and made them feel alienated from former lives.

Campbell 2008: normal compared with others

Described how sufferers struggled for normalcy despite their constant pain. ‘There was an almost constant comparison with others being made as they made every effort to not be perceived as malingering’ (p. 386). Patients made ‘an effort to look “normal”; however, paradoxically this often made others think that there was nothing wrong with them’ (p. 386).

Campbell 2008: striving for self-management

‘Participants actively sought to empower themselves and to be empowered’ (pp. 387–8). Concerns over side effects and dependency of medication; some preferred to take generic pain medicines to avoid this. Reluctant to discuss with GP who did not condone complementary medications. Some used drugs or alcohol to block out pain. ‘“Coming to terms” with pain and the related changes in sufferers’ life situations was recognized as a major part of the process of learning to live with chronic pain’ (p. 387). ‘Instead of trying to rid themselves of “it” and embarking on what is often a fruitless search for a cure, they had undertaken to co-exist with “it”’ (p. 388).

Cook 2000: relationship with health-care professional

Overwhelming faith and dependence on health-care professionals.

Coole 2010: no employment help from GP – clinicians increase concerns

Advice from health-care practitioners often negative. Warnings linked harm to duties at work and increased concerns about staying in work; ‘be careful’; ‘take is steady’. Did not contact employers or advise on temporary modifications.

Coole 2010: no employment help from GP – doubt what GP can offer

Did not expect their GP to give advice regarding work, but only to prescribe medication or issue sickness certificates.

Coole 2010: no employment help from GP – GPs write sick notes

GPs wrote sick notes rather than suggesting modifications to work duties. Most of the advice about returning to work did not follow the occupational guidelines and many either did not return to work or had to request additional information on their certificates to permit them adjusted work duties. Some patients felt they simply had to comply with what the GP said. Others signed off work while awaiting tests and results.
Coole 2010:318 no employment help from GP – lack of dialogue between GPs, health-care professionals and employers

Any joined up dialogue and action missing. This need is therefore undertaken by the patient who then worries whether his explanations will be accepted as valid by the employer.

Coole 2010:318 no employment help from GP – no effective advice from GPs

GPs advised them to stay at work but did not understand the difficulties of this or make any helpful suggestions. Information about return to work from GPs inadequate.

Coole 2010:319 concern about sickness record

Concerns that sick leave perceived negatively and had an impact on employment record and job security. Use holiday leave rather than sick leave. Paradox – only seen as legitimate if they have a sick note, not self-certified – so damned if I do and damned if I don’t! i.e. need sick record to be legitimate but don’t want a sick record.

Coole 2010:319 concerns about future at work

Perceived condition as progressive and had concerns about maintaining work or life quality after work. May be unable to enjoy leisure retirement. Also considered effect of ageing on ongoing pain.

Coole 2010:319 difficulty coping with flare-ups

Uncertainty at the unpredictable nature of their pain which made them unable to work at times. Effect on consistency of ability to work. Loss of confidence. Concerned that employer would not tolerate this unpredictability.

Coole 2010:319 justifying back pain

Cautious about disclosing pain for fear of appearing as either a fraud or as unreliable due to disability. Wanted to legitimise illness by diagnosis or specific cause. Needed to attribute some cause. Some used their own explanations based on physical origin e.g. wear and tear, heavy lifting.

Coole 2010:319 reluctance to use meds

Although saw medication as main role of GP: sceptical of effectiveness of medication; worried about side effects.

Coole 2010:320 occupational health – advice overcautious

Graded return to duties usually replaced by advice to avoid task altogether (against occupational guidelines). Some remained on light duties long after sick leave.

Coole 2010:320 occupational health – dependent on causation

Employers take up of occupational health advice varied. Employers more likely to listen to advice from occupational health if injury occurs at work. Also influenced by other factors e.g. litigation.
Coole 2010:320 patient control

Easier to modify work and stay at work if had the freedom to make their own modifications to working practise. Small changes could make a lot of difference. Could rely on colleagues but there were limits to this. Flexibility of working for self, enabled them to stay in work. However, if worked alone had no one to share work with and would be committed to finish.

Coole 2010:320 employers – help depends on managers

Some received help from managers and colleagues to adjust their work so they could maintain reciprocal working. Short term flexibility allowed them to feel valued at work. If work was reduced indefinitely then they felt a burden that they were not part of team and that colleagues would not support them indefinitely. Exacerbated by lack of belief and cuts to workforce.

Coole 2010:320 employers – managers with back pain

Perceived managers who had had back pain were more supportive.

Coole 2010:320 occupational health – modifications left to manager

Both manager and physician expected patient to be conduit between occupational health, employer and GP. Lack of a clear and effective communication strategy. No opportunity for consultation or discussion.

Coole 2010:320 occupational health – service for employees

Referral to occupational health left to the manager or employer, with non-systematic procedure in place. Often perceived as employer-led (way of managing absence rather than helping them remain at work). Agreement to attend seen as compulsory and there were concerns over confidentiality or future employability. Decision-making/assessments seemed to be based on discussions rather than an actual visit to the place of work.

Coole 2010:320 employers – overcautious support

Some managers could be overcautious as worried about their responsibility for back pain.

Cooper 2008:322 communication

Communication was important to the individual and an important facet of patient care; ‘good communication involved: taking time over explanations; using appropriate terminology; listening, understanding and getting to know the patient; and encouraging the patient’s participation in the communication process’ (p. 247).

Cooper 2008:322 decision-making

Happy for physiotherapist to make treatment decisions as long as they explained options and aims (good communication), it was based on their expertise and it was tailored to individual needs.

Cooper 2008:322 individual care

Valued being able to ask questions and have their opinions taken on board in deciding course of treatment. Felt physiotherapist should take their lifestyles into account. Wanted care to suit individual needs. Felt a thorough assessment important to facilitating effective individual care. Good communication central to individualised care.
Cooper 2008: information sharing

Wanted physiotherapist to explain what was wrong with their back (diagnosis); this need not always met. Peer information sharing generally found to be extremely helpful.

Cooper 2008: organisation

This was around access and timelines for treatment. Wanted shorter waits, easy access during flare-up and longer and more frequent sessions.

Cooper 2008: the physiotherapist

Patient-centred care a complex combination of factors. Caring important but not integral to patient centred care. Competence (as experts) and personality (pleasant and not abrupt, caring) most valued. Did not blame physiotherapist if rehabilitation did not work.

Cooper 2009: typology – non-self-managing looking for cure

Hoping that new treatment would come out that could cure and often seeking alternative treatments. Generally felt that physiotherapy did not meet their goals.

Cooper 2009: typology – self-managing but want future access

Self-managing pain but wanted access in future, in particular for flare-ups; saw physiotherapist as expert and felt they needed a continued relationship with them in order to motivate, check or provide reassurance. Some felt telephone checks were adequate; others wanted predetermined checks and others happy with ad hoc arrangement.

Cooper 2009: typology – self-managing and do not want future access

A small group felt no need for future contact with physiotherapist as confident in knowledge of appropriate exercises. Many in this group felt physiotherapy not meeting their needs but appreciate being able to make some form of long term contact (e.g. by telephone).

Crowe 2010: direct heat (heading doesn’t match concept)

The approach to living with chronic low back pain of ‘putting up with it’ and ‘getting on with it’ pervaded the interviews. Used self-learned strategies (e.g. pacing, diversion). Direct heat was effective in the form of showers, baths, electric blankets or wheat packs.

Crowe 2010: taking medication

Preferred over-the-counter medication as opposed to prescribed. Reluctant to use, and when done usually because it was the only way to be able to get on with what they wanted/needed to do.

Crowe 2010: alteration to self

Pain had altered the self-image. I am not what I used to be (capable and productive). Tension between what I want to be and how I see myself now. Giving up careers had a particular impact.

Crowe 2010: externalisation of the body

Process of ‘objectifying’ body often referred to as ‘listening’ and ‘talking’ to the body. Talked about body as if it was external to the self. Dualism between body and mind. Body external to self.
Crowe 2010: need for vigilance

Because it is unpredictable you need to be constantly vigilant about what you were doing and how you move. People became cautious to attempt things they had always taken for granted. Related to body differently; loss of spontaneity even for previously routine activities.

Crowe 2010: unpredictability

Pain unpredictable and not related to any trigger. This evoked a sense of one being unable to control the body. A sense of tension it seems, as one waits for pain to ‘appear’ at any time; expecting it without warning.

De Souza 2011: children and parents

Physical and emotional burden placed on wider family including grandchildren. Influence of chronic pain spreads up and down the generations. Influence on children age related.

De Souza 2011: spouses and partners

Help and support from spouse/partner valued but also caused feelings distress and helplessness. Strain on marital relationships due to both stress and reluctance to have a sexual relationship due to pain. Additional stress of chronic pain can be tipping point for weak relationship, but in other relationships there was closeness and support to deal with the pain together.

De Souza 2011: work-related problems

Impacts on ability to work and how a person is viewed in workplace.

Dickson 2003: reconstructing meaning of pain – managing and tolerating

Continued to seek out traditional means to manage their symptoms, alongside search for cure. Shift from pain being symptom of disease to being part of ageing [positive view of aging in Korean culture]. Women gained control over their pain and began to interpret their experience as part of growing older.

Dickson 2003: reconstructing meaning of pain – striving to reduce pain

Striving to reduce pain using eastern alternative methods, and restore self-esteem by focusing away from one’s pain. They stopped complaining of pain to others and pain became theirs alone.

Dickson 2003: reconstructing meaning of pain – struggling to remove pain

Disappointment in western medicine – search (complicated by the language barriers) for cure not met by western or Korean American health-care professionals. Socially shared experiences with similar others lessens sense of isolation in suffering.

Dickson 2003: reconstructing meaning of pain – stumbling along with pain

Stumbled along failing to relieve their pain when treated as a disease symptom and realised that western medicine had little to offer. Instead they exchanged experiences with others in pain and realised the benefits of social support and self-care and seeing pain is a sign of ageing.
Dickson 2003: reconstructing meaning of pain – suffering with pain

At first women ignored pain but when pain limited activity they sought cause and treatment from western medicine. At this point the pain became a symptom of a disease that could be treated.

Dragesund 2008: associations about the body

Body a limitation AND a possibility for some; unpredictable body limits opportunities – body has an existence of its own. Become MORE PRESENT IN THE BODY. New opportunities for participation connected to an increased ability to prevent pain from dominating. Not about controlling body but listening to it. No longer at mercy of the body.

Dragesund 2008: aware of body

Greater sensitivity to body and symptoms; different to previous pain free experience of detachment from one’s body. Physical exercise and knowledge of bodily symptoms gave a sense of control over pain and tiredness. Need to respect limits on body (and life) imposed by pain.

Harding 2005: living with and planning for the future

With time there came a sense of resignation to the pain and accepting it as a part of life for the foreseeable future. Acceptance of pain and whether it would ever eventually end dominated this theme. Some reported the notion of an increased pain threshold to accommodate the pain. This acceptance marked a significant point of the patients’ pain career and was characterised by a sense of active adaptation.

Harding 2005: unmet expectations

A person needs their doctors to bear witness to their pain experience. This has a profound effect on their functioning as individuals. Expectations of medical system are not met. Loss of faith in medical system due to GPs’ inability to diagnose and treat; their lack of time to listen and understand patient condition; disbelief of patient descriptions and lack of concern; not being taken seriously. Could receive a range of different sometimes contradictory opinions from medical professionals as to the cause pain and way to treat it. Search for an alternative remedy is taken up.

Harding 2005: making sense of pain

 Tried to make sense of the cause of pain by locating it in the context of their lives (e.g. cancer, bereavement, diabetes etc.). Used diverse explanations to explain their pain. Doctors were perceived as not helping them make sense of their pain but only providing a medical interpretation for it. For most, there was a consistent tendency to not wholly subscribe to the medical interpretation.

Harding 2005: spoiled identity

The reductions required by chronic pain have an impact on sense of identity and cause people to perceive themselves as different from others. There is a tension between outward appearance remaining ‘normal’ and internal changed identities. Some felt that they had ‘given in’ to pain; other grudgingly accommodated the changes and lowered expectations.

Holloway 2007: stigma at work

All described struggle to stay at work and stories of unsympathetic encounters with colleagues who could be hostile. This created an environment of mistrust. Media reports of back pain being ‘real’ reason to be off sick do not help.
Holloway 2007:379 stigma by significant others

Lack of diagnosis and invisibility of pain raised suspicion that pain is not real. Spouses faced isolation, role tension, marital conflict reduced sexual activity. Could lead to divorce. Patients tried to meet the expectations of others, and this could not only aggravate pain but make others feel that they were putting it on.

Holloway 2007:379 stigma in everyday life

Patients felt stigmatised socially for having an invisible illness; people don’t believe that there is anything wrong at all. Provoked by media reports of benefit fraud.

Holloway 2007:379 stigmatisation in health-care systems

Often disbelieved by health professionals and told pain was ‘all in the head’. This has an impact on benefits and compensation as patients perceived as malingerers.

Hunhammar 2009:331 striving to master variable pain – disruptions to daily life

The multidimensional nature of pain and how this impacted on a range of activities associated with living (physical and psychological).

Hunhammar 2009:331 striving to master variable pain – space for health

The experience of chronic non-specific pain added an additional burden to life which required a space to meet these demands such as physiotherapists’ appointments or time to keep fit. Gender differences emerged with childcare a main consideration for women.

Hunhammar 2009:331 striving to master variable pain – strategies for pain control

Balance and concealment of pain were two important approaches to handling pain. Balancing incorporated physical adaptations as well as utilisation or primary care resources. Pain was often concealed from others to avoid feeling negative about experiencing the pain.

Hunhammar 2009:331 striving to master variable pain

This core category describes the variability and unpredictable nature of pain. Thoughts of the future were hopeful but did not include an expectation that there would be a full recovery. Concerns about work emphasised the need to keep on working and not take sick leave. This category included an attitudinal approach to pain which encompassed a ‘getting on with life in spite of the pain’.

Johansson 1996:332 strategies to get doctor’s attention – claiming under cover

Diverse strategies of obtaining information about the illness from the doctor through ‘naive’ questioning.

Johansson 1996:332 strategies to gain self-respect – condemning

Sceptical of usefulness of encounters with the doctor, their willingness to help and their knowledge of the illness.
Johansson 1996.332 experience of distrust

All patients felt distrusted in the consultation by the doctors, and wanted a diagnosis for reasons of credibility. They described a vulnerable position. As patients they were subject to the doctor’s ability to define the illness and decisions over treatment. Concern doctor might turn hostile; felt ignored, disregarded and rejected.

Johansson 1996.332 expectations of a ‘creditable’ consultation

Unfulfilled expectations of the ‘diagnosis’ (i.e. a ‘creditable consultation’) emerged: to be taken seriously, to get time for an informative dialogue, and to achieve an ongoing relationship to the doctor.

Johansson 1996.332 strategies to get self-respect – martyrising

Although they described constant pain, and ‘pilgrimages’ for help to different doctors, they also, conveyed the image of ‘silent sufferer’, never complaining, ’working beyond’ their power.

Johansson 1996.332 strategies to gain self-respect – mystifying

One way to accept the absence of a creditable diagnosis was to adopt a self-image of being an incomprehensible case. Therefore the doctor was not to be blamed.

Johansson 1996.332 strategies to get doctor’s attention

Dramatic weeping or begging in order to elicit information from the doctor.

Johansson 1996.332 strategies to get doctor’s attention – somatising

All about trying to be seen as a credible (and illness not imaginary) patient by doctor through very physical bodily descriptions to the doctor.

Johansson 1996.332 I am under the doctor now

Image of the doctor as a sort of manager who can be useful in helping patient on the road to recovery, but can limit the patient’s initiative in their recovery process.

Johansson 1997.333 family considerations

Managing job and family responsibilities (such as child care) a balancing act premised on complex choices (fewer hours, working unsociable hours, etc.) in order to make more time for home and the family.

Johansson 1997.333 to get along moneywise

Saw having a job as vital to getting on with life, but stuck with low income jobs, and difficult to get back into education to improve job prospects.

Johansson 1997.333 getting out to be stimulated

A job holds potential for stimulating activity if flexible and not onerous. Described social tensions at their workplace, involving workplace reorganization, threat of redundancy, and some even bullying.
Johansson 1997: sick role process

Work capacity constrained by illness. Tensions surrounding inability to work, having to be at home and the desire for financial benefit compounded by a revaluing of more ‘traditional’ family roles (and the woman’s place in the home) – ‘how could I even think of getting a job’. For older participants a feeling of shame at being sick listed along with a sense of entitlement.

Johansson 1997: to be somebody

A job could play a part (as one of other factors) in improving one’s self-esteem as individuals felt needed, but many frustrated with lack of recognition. ‘If you don’t have a job you are nobody’.

Johansson 1999: consequences for activity

Pain impacted capacity to undertake everyday tasks. Some patients even felt these limitations made them incompetent workers or made them appear to be whiners to family members. The pain limited pleasure in undertaking hobbies.

Johansson 1999: bodily presentations

Pain a threat of something going wrong in the body. Pain unpredictable and uncontrollable. Started in a distinct location and then dispersed. Pain a constant invisible alien enemy. Patient feels detached from the painful body part and unable to connect with it as a familiar part of their own body; an uncontrollable intruder; and can be triggered with one small body part being affected, then pain spreading throughout body.

Johansson 1999: explanations

Focus here on the patient’s search for the cause of their condition with reasons ranging from physical injuries to emotional tension and even spiritual retribution and genetic predisposition.

Johansson 1999: self-perception

Invisibility of symptoms damaging to ones reputation as it evoked disbelief on the part of others. Being at home could increase expectations about household duties. At the same time, if she managed this, then neighbours were suspicious – why can’t she work! Can affect a woman’s very sense of being a capable woman (wife, mother, sexual partner). Uncertain about how to deal with limitations imposed by illness on work capacity, especially as many patients felt that going out to work improved their image socially despite their perpetual struggle with the physical pain.

Liddle 2007: expectations from treatment

As individuals took more responsibility for their recovery the need for individual exercise and advice was increasingly important. Supervision was considered important to make individual corrections. There was a need for follow-up and support as this was reassurance that the exercises were being performed correctly.

Liddle 2007: treatment received

Disappointment at unmet expectations of treatment. Frustration at inability of medical system to relieve pain, and diversity of attempts to resolve the problem. GPs over-emphasised use of medication. Participants were concerned that this was treating the symptom without addressing the source of their condition.
Lundberg 2007: failed adaptation

Did not accept the radical change to lives caused by pain. Frustration, low mood, sleep deprivation, abuse of meds. Avoided movement which aggravated and adopted ‘passive’ strategies; lying down etc.

A strong, well-functioning body was an important source of identity, so this limitation in their ability to use their bodies led to identity loss. The lost identity was expressed as low self-esteem, bitterness, and shame. Exacerbated by negative encounters with health-care professionals and socially. Mourned previous life without pain.

Lundberg 2007: finding the way out

Found time to accept body in pain. Positive encounters with others helped this. They had previously taken their bodies for granted and paid no attention to it. The experience of pain forced them to think about their body and in so doing, their existence and identity came into focus. Thoughts about body and mind were more clearly expressed in this than in the other typologies. I have learnt to separate my body from my self; learned new things about themselves. They developed their empathetic abilities and gained patience both with themselves and others. The informants experienced the vibrancy of and the good in life despite difficulties and persistent pain.

Lundberg 2007: identity restoration

At first experienced low self-esteem, shame, loss of self, social isolation. Time of chaos and abandonment. Went through a process of reconsidering their existence and identity. A new identity was created based on the reality they had to face. With guidance from physical therapists, the informants achieved increased awareness of their bodies, which helped them to transform their way of being in the world of pain. This gave an increased confidence in the future (with some doubt). Reorientation was described in terms of how their previous life had been re-evaluated and having reconsidered their definition of quality of life.

Osborn 1999: comparing this self with other selves

Compare self with others and past/future self.

a. I am not like the old me who was fit and able to work hard. Some defined themselves as bereaved. Grieved for the old self. I am not my happy previous self – look back nostalgically. Painful reminder of loss. Past self considered to represent the real self replaced by new false persona. Pain denies me my right to be me.

b. Fear what future will bring. Feelings of uncertainty.

c. Constantly comparing to others and put emphasis on disability. Took refuge in thinking of those who were worse off, but this could make them think of a possibly worse future (also this does not compensate for my loss).

Osborn 1999: not being believed

No visible sign of suffering. Uncertainty about pain made them vulnerable to judgements of those around them. Continual need to justify self. It is real; I am not mad or bad. Faced threat of rejection even by nearest and dearest. Pain has caused a shift in familial reciprocal roles. I am a burden but also people don’t believe me. Lack of credible evidence made them feel guilty of the burden they were placing on their families. Uncomfortable about not being able to reciprocate but becoming the one
that is cared for. Appearing too healthy or mobile threatened credibility. Forced to appear ill but this meant bearing burden of not being seen as self by others (‘I’m not a cripple’). Denied opportunity to relate to others in a world free of the influence of pain.

Osborn 1999:342 searching for an explanation

Strong motivation to know why they had pain. Couldn’t believe nothing could be done. Pain felt to have its own volition. Sense of bewilderment of why I am suffering. There must be something wrong. Reality can’t be explained in a meaningful way. Uncertainty and ambiguity pervades.

Osborn 1999:342 withdrawing from others

Rather than meet demands of managing appearance of pain, withdrew from public view. Easier to conceal their condition than rely on the understanding of others. Avoided social events at risk of appearing unsociable. Avoided potential for embarrassment and rejection. Tension with not wanting to become isolated. Relationships at risk. Hide distress to avoid rejection. Dilemma: can’t appear healthy but don’t want to go on about pain and risk rejection. Social world now threatening. Retreated to private world. ‘Social world could not accommodate people who had chronic pain’.

Osborn 2006:343 living with body separate from self

Pain has made me aware of my body now. Separation of painful body from self. Self and body opposing entities. Painful part NOT ME. Unpleasant and relentless presence of a body that is ‘not me’. Living with pain affects who I am [self]. New body alien. I feel powerless against this alien body. Dysfunctional part of body NOT ME. There was a distinction made between the original self and that self which had emerged due to pain.

Osborn 2008:344 fearfulness of pain

Powerful affective element. Describes how pain is sucking the life out of me. Violent imagery of pain. Pain a hostile presence; an aggressor. I am powerless. Pain is a malevolent force intent on damaging me. Pain is malevolent like the ‘devil’ as it harasses and disables. Pain is a parasite. Pain is vindictive. [Anthropomorphising pain – it has a will]. Humiliating and punishing assault from another [person] Pain threatens my body and me. Pain undermines and isolates me socially. Pain is punishing. Pain makes me a monster. Pain makes me not me and intrudes on others. Imagery of isolation. The malice and cruelty they ascribed to their pain interfered with their relationships by making them both intolerant and hostile.

Osborn 2008:344 containing fear through social connection (post-hypnotic intervention)

Pain remained unchanged as an object of thought but they felt better able to manage the fear it evoked. Their pain possessed the same meanings and was no different in its threatening potential and unpleasantness: each participant felt more able to manage his or her pain, they reported an increase in the degree of self-confidence they felt in the face of their on-going pain and a reduction in the level of fear and worry. Therapeutic alliance eased sense of isolation, vulnerability, and fear. Someone else is part of the experience.

Patel 2007:345 personal obstacles – age

Older patients felt double disadvantage of age and disability. Older persons resistant to retraining (as close to retirement) and feared rejection from employers because of their disability.
Patel 2007:345 uncertainty – benefits

Patients not only perceive leaving benefits as risky but also returning back to benefits as time consuming and bureaucratic. Feared leaving benefits but saw employment as making them better off. Return to benefits within a year of coping unsuccessfully with work (government initiative) perceived as daunting and as not offering financial stability.

Patel 2007:345 benefits organisation – (limited)

Limited support on advice from benefits officer about return to work. Felt jobs offered were inappropriate to their condition.

Patel 2007:345 perceptions at work – employers’ limited understanding

Employer support and understanding limited due to a lack of awareness, negative perceptions (that the ill person will frequently be off work) and, perhaps, lack of personal experience. Patients feel that use of walking aids may make their case appear more plausible to employers; However, employers may also see such persons as more ‘risky’ to employ.

Patel 2007:345 perceptions at work – fear of letting employer down

Letting people down was expressed in terms of a threat to the patient’s own self-image as a worker: Some left work voluntarily for fear of letting employers down or not being seen as a good worker.

Patel 2007:345 health-care barriers

Trapped in a cycle of repeated consultations that stopped return to work. Long waits and not being taken seriously by health-care professionals exacerbated this. Some had been classified unsuitable to work by benefits medical officers. This assessment for work eligibility became a deterrent to taking on rehab to return to work.

Patel 2007:345 perceptions at work – job availability

‘Patients held the perception that healthy individuals would be more appealing from an employer’s perspective therefore; there is little point in attempting to return to work’ (p. 837). Reported negative attitude and discrimination from employers exacerbated in competitive work market.

Patel 2007:345 uncertainty – pain and health

The unpredictability of the severity of pain and limitation, and the duration of a flare-up made it very difficult for patients to foresee how they would cope with returning to and remaining in work: inability to cope with fluctuating nature of pain makes return to work less possible (as flexible working patterns not very common). Disadvantage in competitive working market.

Patel 2007:345 benefits organisation – permitted work

Government initiatives to ease patients back into work are perceived by patients as limiting their capacity to earn, while placing them in the additional dilemma of having to choose to remain in work or cease working once permitted work period ends.

Patel 2007:345 psychological barriers

Sense of being unable to control/manage pain leads to feelings of low mood, depression, fear, loss of confidence and frustration, heightened by limited positive treatment outcomes and disappointing
results of high expectations from health care. The search for other medical treatments results in a cycle of consultation that can be frustrating.

Patel 2007: personal obstacles – qualifications and experience

High-level skills could be a barrier for return to work as applicants did not want to be trapped in a job that was not commensurate with their level of training. Those with low level skills thought lack of training was also a barrier to return to work.

Patel 2007: perceptions at work – resistance to change

Anxious about prospect of having to change job or field.

Patel 2007: benefits organisation – staff skills

Benefits officers lacked skills to help return to work for patients with chronic pain. Focus on unemployment rather than returning to work with chronic pain. Most dreaded attending for an assessment.

Patel 2007: uncertainty – future

Pessimistic about future and avoided thinking about it. Unable to plan a return to work because of unpredictable nature of pain. Lived day by day rather than making plans they could not realise.

Patel 2007: uncertainty – working capacity

Did not feel that they had received advice on what type of work they could return to and that benefits officers lacked skills to do this. Some reported being advised not to return to work by their GPs.

Rhodes 1999: aligned or alienated

Aligned – tests fit the anatomical model. For some patients diagnostic tests produce ‘results’ (‘black and white’ X-rays, tests) for which the visual image corresponds exactly with their experience of pain. Tests seem so positively transparent and simplistic; they give proof. Deviation should show up and be susceptible to repair.

Alienated – don’t fit anatomical model; feel guilty and disillusioned. Some experienced a discrepancy between their own ‘inner’ experience of pain and the diagnosis and needed to legitimise what they felt. This can lead to feelings of guilt, disillusionment with medicine, doubts about the tests and frustration. (I am certain but I have no proof).

Rhodes 1999: anatomical body

Anatomical understanding corresponds to visual images of the inside of the body. We perceive that variations can be measured based on what is typical and what is deviant. While in pain awareness of the body increases, becoming an ‘alien presence’ or ‘foreign thing’. Pain patients may see ‘images’ of their pain specific to their own cultural model.

Sanders 2002: cultural connotations of ageing

Change in expectations came with older adulthood BUT at the same time the desire to distance themselves from the negative stereotypes of old age; e.g. embarrassed about walking sticks. Want to present an image of ‘ageing well’ i.e. not conforming to stereotypes. Striving to appear ‘normal
and without arthritis’. Ambiguity – old age made disability become invisible ‘you cannot be considered old and disabled’; i.e. they were not viewed as being legitimately disabled because they were old. ‘operating simultaneously in creating an experience of symptoms which is both biographically normal and abnormal’.

Sanders 2002: disrupted biographies

Although ‘normal’, pain also disruptive; effect on relationships, isolation, depression, and fear of dependence in future. Varying degrees of social or relational disruption due to illness. However this ‘talk’ of disruptive biography balanced with playing down the significance of osteoarthritis and ‘putting on a brave face’. There was a degree of stoicism in their accounts. Family relationships paradoxical: a source of both support and conflict. Participants experienced fear of possible future dependency affecting relationship with extended family, but seemed more positive about relations with a disabled spouse with whom there was mutual support.

Sanders 2002: normal aspect of biography

Pain is a normal inevitable part of ageing; normal and integral to biography; an ‘expression of their history’; Onset often tied up with biography e.g. varying hardship; bound up with self. Reluctant to seek treatment, ‘there is nothing they can do’. Those with rapid onset and deterioration and younger adults did see this as disruptive to self and ‘not normal’ (e.g. hereditary, trauma).

Satink 2004: aiming to collaborate with pain

Found ways to build relationship with their pain and to accept it [up to a point].

Pain become part of me; learnt to listen and accept it as part of me. Became focused on the present moment. became more aware of need to participate and care for others.

Satink 2004: aiming to be normal

Image of struggle to not accept pain of its limitations, but be as active as previously/normally was. Recognise pain has ‘won’ and overpowered them. A losing battle and growing realisation of need to change behaviour due to pain.

Satink 2004: aiming to control and reduce

Hope that less social/occupations participation would mean less pain. This way of controlling pain results in emotional pain due to the effects of this withdrawal, imprisoned in a very small world of limited daily activity. Further, despite this sacrificial adaptation the physical pain remained.

Skuladottir 2011: quest for normalcy – avoid sick role and maintain dignity

Took trouble to maintain appearance which meant that some did not realise or understand how they felt. Some tried to hide pain or conceal that there was anything wrong. Wanted to appear normal and maintain a sense of dignity. Felt this was respectable and made them more like ‘normal’ people’. If you look too good it doesn’t look like you are suffering.

Skuladottir 2011: quest for normalcy – need to participate

Need to participate in family activities even if it makes me worse for a while. Being an observer increases isolation. Having a job, being involved, being active and participating important. ‘Give up and be depressed or to try to live a good life with this’.
Skuladottir 2011:355 quest for normalcy

Retain optimism hope positive thinking goals at same time be realistic. Although pain has changed me I am still a strong person. Gaining a sense of achievement from the things I CAN do. More of a focus here on positive thinking and seeking meaningful activities to occupy time and focus in order to maintain good mood and optimism.

Skuladottir 2011:355 quest for normalcy – involved in decision-making

Women felt they were the experts in their own pain and valued participation in decision-making surrounding pain. Realised the limitations of health-care professionals and that I am the expert of my pain. I am in charge.

Skuladottir 2011:355 quest to learn to live with pain – need diagnosis

Diagnosis – the women ambivalent about getting a diagnosis: not having one increased probability of stigma and label of its all being in ‘the mind’. Receiving a diagnosis made some patients feel they may be ill for life.

Skuladottir 2011:355 quest to learn to live with pain – need for effective treatment

Effective treatment – pain alleviation/coping strategies ranged from exercise and reflexology, to diet, distraction and medication. Some made unilateral decision to stop taking medication.

Skuladottir 2011:355 quest to learn to live with pain – need for help, advice and information

Most had experienced a lack of information and felt they were left to fend for themselves and find out information about their illness. Sought advice from health-care professionals but communication itself important. ‘An approachable health professional not only gave information and advice but allowed expression on their part as well’ (p. 85).

Skuladottir 2011:355 quest to learn to live with pain – need to take care of self and find a new pace

Slow process; need to learn to protect self from unfair demands. Found a new pace and pattern of life through organising and preparing self.

Skuladottir 2011:355 quest for support, caring and connection – need for health-care professional

Professional support from health-care professionals valued for the encouragement provided during early stages of pain. Health-care professional care through listening and concern also valued, with patients not receiving this frequently experiencing dejection and misery.

Skuladottir 2011:355 quest for support, caring and connection – need for practical support

Torn between wanted to keep role and do household tasks themselves but needing help. Some obliged to do it because nobody else did it.

Skuladottir 2011:355 quest for support, caring and connection – need someone who cares

All felt a need to share their experience with someone (family) close who cared about them, and not to feel as though they were bearing the burden alone.
Skuladottir 2011: quest for support, caring and connection – need to be connected and care for someone

Caring for children increase pain but was satisfying and fulfilling. They were needed and had a role. Someone relies on me and this drives me on.

Slade 2009: engagement with health care – ask me

All participants reported that engagement with their health-care provider improved if they were explicitly asked for their opinions and goals.

Slade 2009: engagement with health care – assertiveness

They acquired an ability to assert their needs through a process of trial and error.

Slade 2009: engagement with health care – continuity and connectedness

Poor continuity of care and abandonment by care providers was perceived by all participants. Follow-up contact valued.

Slade 2009: listen to me – explain it so I can understand (title doesn’t match concept)

Need a ‘competent and empathetic listener’. Health-care professional needs to listen and be empathetic; I am not taken seriously; I have to keep telling my story; listen to what I am saying.

Slade 2009: listen to me – I know my body

Learned about responses of body and limitations imposed on it by pain over time. This knowledge empowers.

Slade 2009: engagement with health care – partnership

‘All participants expressed the need for mutual enquiry, problem-solving, negotiation and renegotiation between care-provider and care-seeker to establish mutual therapeutic goals’ (p. 273). Patients wanting to feel that their opinions are sought and considered through every part of their care pathway.

Slade 2009: engagement with health care – understand me

Desire for care providers to view them holistically and consider their life circumstances, personal preferences and their perceptions in order to develop individualised exercise programmes.

Slade 2009: stigma – community, friends and family

Judgement extended to family, friends and community. People see back pain as an excuse for non-participation and poor performance. The invisibility of pain is a barrier to legitimacy.

Slade 2009: stigma – pathology-driven validation

Medical validation valued as it bestows credibility. Absence of validation is a significant barrier to participation; it is physiologically, psychologically and socially disabling. Patients felt validity of illness in question as imaging tests revealed no cause/evidence of pain. Expressed relief when an X-ray or MRI demonstrated pathology. Compounded by misdiagnosis or change in imaging findings. Feel need to legitimise self as not ‘mad’ or ‘bad’.
Participants’ feelings ranged from anger to frustration in their search for understanding, legitimacy, validation, and knowledge, and this highlights the dominance and essential weakness of the biomedical model to their situation. The medical model makes it difficult to engage in treatment and regain control of their lives. Current societal attitudes reinforce these obstacles. Preferred incorporation of ‘normalcy’ rather than ‘sickness’ in rehabilitation.

Comparing themselves with other patients helped some patients gauge severity of their own condition. Some were judgemental of others with back pain.

A long patient journey reported, in their search for knowledge of illness, and appropriate and empathetic care. Majority unsatisfied with encounters with health-care professionals. They felt blamed, guilty, perceived as having an ulterior motive (such as seeking gain through their illness), or that were imagining it. Perception that practitioners did not position them as capable of understanding pathology or management approaches. They wanted to feel valued, believed and connected with practitioner. Felt practitioners emphasised medication and did not give advice; they lacked empathy and understanding and did not seem to take them seriously.

Strong motivation to understand their pain. Patients wanted lots of information in a clear jargon-free way that they can understand.

Many felt responsible for back injuries despite poor workplace policies. This guilt compounded by judgements by colleagues. Culture of judgement exacerbated by compensable bodies. Reputation for being ‘workshy’ despite attempts to stay in work.

Paradox:

a. Use strategies to try and prevent erosion of ‘good’ self.

b. At the same time a resignation that pain has irreparably altered self.

This represents as a process along a continuum. Cannot tell if this necessarily a process from one to the other or could go in either direction. Over time ability to wrestle self back from the pain. Initially fight to be same as always, realise it is not possible and therefore adapt into new person with chronic pain as part of who they are.

Negativity contaminates relationships. Patients felt that their internal negative emotions brought on by chronic pain are directed outwardly to others in the form of malevolence and spite in taking pleasure in the suffering of others. Narrative – My pain is so bad that I am a terrible person now; it is so bad it has changed who I am. An expression of lasting change; this is how bad the pain is.
Smith 2007 negative impact on self

Pain significantly impacts on one’s identity and perception of self, resulting in denigrative mental inner conflict between the ‘two selves’: the ‘mean me’ and the ‘nice me’. There is a battle to ‘retain a good self’ and this struggle can be more distressing than even the pain itself.

Smith 2007 public arena makes it worse

Social isolation appealing as less pressure to hide ‘miserable self’. Patients felt reduced to ‘a bit of a person’ as unable to fulfil (familial) roles to their ideal standards; felt vulnerable to ridicule or punishment from others; and felt perceived as a ‘burden’ and without ‘value’ by society.

Snelgrove 2009 maintaining integrity – cause of pain

Explanation for pain physical not psychological; often described as caused when doing something virtuous. Patients’ explanations couched in a previously virtuous life (moral narrative) and they are therefore blameless.

Snelgrove 2009 crucial nature of pain – emotional response

Low mood and anger impact negatively on relationships with others including health-care professionals and inwardly to self.

Snelgrove 2009 crucial nature of pain – loss of social role

Discrepancy between present and past self. Loss of independence and family role compared to the past.

Snelgrove 2009 crucial nature of pain – loss of spontaneity

Loss of ability to do even most mundane and taken for granted activities of daily living. Loss of spontaneity; need to plan everything I do.

Snelgrove 2009 managing the pain – medication dependency

Ambivalent relationship to medications as even though medication needed to relieve pain, it can be ineffective and lend to one becoming medication-dependent.

Snelgrove 2009 maintaining integrity – not being believed

Difficult to maintain credibility due to invisibility of pain and disbelief.

Snelgrove 2009 crucial nature of pain – body/self/pain as a threat

Body separate from real self. IT (pain) versus ME (body). Pain threatens to take over self by taking ownership of body.
Snelgrove 2009:358 crucial nature of pain – physicality

*Emphasised physicality of pain: unpredictable, hopeless, intrusive, overwhelming, unbearable.*

Snelgrove 2009:358 managing the pain – relationship with health-care professionals

*Loss of faith in medication and the health professionals but continued to adhere to a medical model and continued to have faith in medical technology.*

Steen 2001:385 awareness of self

*Now more aware of self and body in everyday life and did things differently.*

Steen 2001:385 community

*Being in within the walls of ‘the room’ brought a sense of relief, sharing and community, validation and safety to many.*

Steen 2001:385 accepting self and others

*Acceptance – of self and others increased as group discussions allowed for comparisons and validation. Being able to express innermost thoughts and feelings (and to cry) valued by patients and appeared to impact positively on their self-esteem.*

Steen 2001:385 change of focus

*Increased consciousness of bodily signals and of how one needs to respond to these (rather than ‘fighting the pain’) in order to effectively manage pain. This may require a change in one’s way of thinking.*

Steen 2001:385 drop-outs

*Some patients not comfortable with psychological inference, physical proximity and embarrassment of exercising.*

Steen 2001:385 experimenting

*Narrative of discovery [learning to trust own opinions]. This seemed to capture how the group and leaders gave them permission to explore, be curious and be creative. The feelings generated to be celebrated and not hidden. A respect for patient opinions about illness and exercise choices although they may have limited experience of these processes. Also seems to be about patients valuing freedom to try things out, such as different methodological approaches (and make mistakes), rather than only following the instructions from health professionals.*

Steen 2001:385 gender

*While some felt that discussions would have been ‘different’ if men participated in their group, some males were glad to have been able to be a part of a group.*

Steen 2001:385 group leaders

*The humankind of believing the patient – different from usual health-care professionals. Behaved like human beings and treated patients like one. This did not impact on professionalism in a negative way (rather positively). Valued if they joined in not just issued instructions.*
Strong 1995:387 how are you coping?

Most patients perceived themselves as ‘copers’ being able to get on with life, despite pain. This perception appears to be characterised by an attitude of acceptance of pain over time. Where such acceptance was absent (usually for a patient still relatively new to the pain), it was usually characterised by attempts to ignore pain as an approach to managing it.

Strong 1995:387 what helped you to cope?

Distinct changes over time for the majority of patients as they realised that pain might be there to stay. However they remained open to any new advancement. This realisation was usually accompanied by accepting responsibility for managing pain, and appreciating the roles of planning, compromising and prioritising in undertaking tasks. Get the maximum you can out of life because life goes on – the pain is always going to be there regardless of what you do, so get out and do it. A general sense that inactivity was not a viable option as it only made the pain worse. Movement here from high patient expectations of an omniscient health professional, to greater self-reliance in addressing the symptoms of their illness.

Teh 2009:362 participation in pain treatment – don’t want to be harmed

Some patients wanted to maintain a compliant [traditional] relationship with their doctor and be seen as a ‘good patient’; for some this was because of fear of harm if you didn’t do as the doctor told you – the doctor knows best.

Teh 2009:362 importance of relationship with health-care professional

Relationship with health-care professional valued: being understood, seeing them as a person, being remembered and continuity of care means that you feel known, safe and legitimate. Being unknown, not heard or understood means isolation and de-legitimacy.

Teh 2009:362 participation in pain treatment – involved in decisions

Patients were involved in decisions by rejecting or withdrawing from suggested treatments, or by asking for specific treatments. Those who had a good relationship with the health-care professional were more successful self-advocates. Power to take control of treatments may lead to withdrawal from treatment and subsequent suffering. Mixed view about speaking up and being assertive about health-care needs and options.

Teh 2009:362 participation in pain treatment – working outside health-care professional relationship

Patients sometimes changed pain medications without consulting health-care professional, due to dislike of pain medications and fear of reliance on these. Working on own to manage pain: change own medication, taking supplements or exploring alternative remedies. Patients resourceful in accessing alternative health strategies.

Toye 2010:363 loss of credibility

Most described situations where they had not been believed by healthcare professionals, friends, family or colleagues. Difficult to appear credible when you have back pain because; it is very common, symptoms continually vary, it is medically invisible; a person looks well. It also is stigmatised and carries various stereotypes.
Paradox:

a. I need a diagnosis to be legitimate (even though this is counterintuitive because I don’t want to be ill).

b. However, I know that psychosocial factors contribute to my pain (mind over matter metaphor).

Paradox:

a. Meeting others with pain confirmed legitimacy.

b. BUT I am not like the others. Patients were ambivalent in their relationships with other patients, and also stressed how they were ‘not like them’. Social comparison and moral narrative used to rank self and confirm legitimacy.

Paradox:

a. You have to learn to live with it [use of cultural rhetoric].

b. I am still me and I will fight to be [use of cultural rhetoric].

These are not mutually exclusive; can accept defeat but still fight on [lose battle; win war].

Paradox:

a. Consistency or persistence of pain behaviour an important dimension of judging whether or not someone was genuine.

b. But don’t look too ill all the time or people won’t believe you. There is a ‘right way to be in pain’.

Patients had to negotiate a balance between not looking ‘too ill’ and yet looking ill enough. Often resolved this by hiding their illness even from those close to them.

This describes how patients felt that they were not being listened to or understood as a person whose life had been changed by back pain.

GPs make light of something that is very serious to the person (I see loads like you, there is nothing much wrong with you), and this also makes them feel guilty for wasting doctors time.
Toye 2012: being fobbed off – just take the tablets

Saw GPs as keen to dish out drugs and this was not a cure. Medication was described as part of the process of being ‘fobbed off’. Particularly annoyed if given anti-depressants as not seen as dealing with real pain.

Toye 2012: being fobbed off – I just want to be heard

Patients described how it was important to know that the GP understood them as an individual and the impact the pain was having on their lives.

Toye 2012: being fobbed off – I didn’t get a thorough examination

Did not accept that a doctor could diagnose a problem without performing a thorough examination, including physical and diagnostic tests such as palpation, X-rays, scans or blood tests. Patients interpreted this as a) not being believed or b) not being taken seriously.

Toye 2012: you are just a GP – not leaving until I see a specialist

Patients described the GP’s reluctance to refer to the specialist. They felt they had to make a strong case for their referral or the GP would not ‘sign that piece of paper’. This was described as a battle and some described feeling guilty for putting pressure on the doctor.

Toye 2012: nothing else we can do

Patients described how the doctor told them to accept their pain and to get on with life, perhaps even to expect things to become worse. This left them feeling that they had not been heard or taken seriously. There was a nagging doubt that for some that maybe there really is nothing that can be done (but this leaves me with no hope).

Toye 2012: who is the back expert

Over time patients began to doubt the existence of a ‘back expert’. Having accessed the specialist, patients had expected a definitive diagnosis on the basis of thorough examination and expert opinion, but often got conflicting advice.

Toye 2012: you are just a GP – you are not a back expert

Patients described how GPs lacked specialist knowledge that would allow them to effectively treat back pain, and this is why they ‘fobbed you off’.

Toye 2012: restoring hope – constructing an acceptable explanatory model

Successful patients had accepted a link between mind and body and embraced psychological interventions. However, physical explanations were still important, and they constructed a new model, which described the body as out of balance rather than broken, thus being able to retain legitimacy in spite of having no medical diagnosis. Unsuccessful patients held onto medical model.

Toye 2012: restoring hope – constructing acceptable self-identity

Successful patients felt that they were ‘still me’. They had made some ‘acceptable changes’ to themselves. For example; I need to be strict with myself now, I don’t need to be a perfectionist. They described pacing as a way of gradually increasing activity levels over time, rather than being...
used to limit activities. Unsuccessful patients described overwhelming loss of self and saw pacing activities as restricting their activities and therefore their lives.

Toye 2012:365 restoring hope – deconstructing fear of specific movements

Described how prior to pain management, fear of moving had made them avoid specific movements. Several factors helped to deconstruct fear: learning that hurt does not mean harm, seeing other patients in the group perform feared movements, performing feared movements themselves, working through flare-ups under supervision of physiotherapist.

Walker 1999:367 being in the system – all in the mind

Absence of proper diagnosis contributed to patients feeling that medical professionals felt that the pain was ‘made-up’. They were often referred onto different physicians.

Walker 1999:367 being in the system – battling for benefits

Forced to stay in benefit system; no perceived advantage of coming out of it, even though they did want to work. This concept underscores the challenges generated by the state.

Walker 1999:367 being in the system – compensation claims

Some patients felt others were at least partly responsible for their back pain problem and that they should be compensated.

Walker 1999:367 being in the system – damned if you do and damned if you don’t

Compensation claims could alienate you from colleagues at work OR force you to seek medical diagnosis and treatment. Negative consequences of applying for compensation and apportioning blame. This describes being alienated because of legal process BUT if you don’t then you won’t get compensation [team note; link to Karl Marx: system covertly suppresses claims for what you deserve].

Walker 1999:367 being in the system – establishing a legitimate claim

Participants describe a struggle to be seen as ‘genuine’ benefit applicants. Living with back pain and living with disability benefit reflects the battles to prove disability

Walker 1999:367 being in the system – feeling insignificant

Communication with health-care professionals not based on relationship between two equals. Professional language often alienated the patient and inhibited good communication. Feel like you have not been understood as a person. Failure of medical professionals to ‘believe’ them, this being compounded by nothing appearing on X-rays, and patients being seen by different professionals in ‘parts’ and never holistically.

Walker 1999:367 being in the system – getting nowhere

Attempts to understand, diagnose and treat pain unfulfilled – feel thwarted.

Walker 1999:367 being in the system – losing faith

Felt health-care professionals had given up on finding a diagnosis and cure, and blamed the patient for their own condition. Patients lost faith in doctors who did not understand their world.
Walker 1999:367 being in the system – passing the medical test

Need to prove that there is significant disability to enable the claim to be processed. Physician bias and ‘malingeringophobia’, compounded by the patient’s own determination to lead a ‘normal’ life. This can contribute to patients failing their physical examination and impact their being unable to receive compensation and benefits. [test – powerful of language TEST]

Walker 1999:367 being in the system – the medical process

Medical system consuming their lives but is failing them.

Walker 1999:367 being in the system – waiting

Feeling like a ‘shuttlecock’ long periods of waiting and being sent back and forth for non-productive treatments. All patients felt too much time wasted waiting in vain for ‘productive’ assistance in the medical system.

Walker 1999:367 being in the system – your life is not your own

Deservingness of benefits payment out of the hands of patients, resting solely on the opinion of medical professionals/benefits officers.

Walker 2006:368 loss – employment

Sense of loss related to work exacerbated by lack of understanding from employers, particularly if employment had been longstanding. Felt a sense of betrayal by employer as pressure felt to leave work. Feel like they are treated ‘just like a number’ even when work had been valued prior to pain. Patients went to great lengths to find employment and often hid back pain from their employers (e.g. by taking holiday instead of sick leave). Guilt and resentment at losing/not finding suitable employment.

Walker 2006:368 loss – financial

‘Descent into poverty and social dislocation’; Changes in accustomed lifestyle as a result of financial loss. Inability to support family led to feeling guilty. Difficulty accessing statutory financial support related to invisibility of pain. Lack of economic dissatisfaction appeared linked to age (pension aged people did not necessarily feel the loss).

Walker 2006:368 loss – ability and role

Physical and mental effects of pain (e.g. lack of concentration) prevented patients from performing every day and valued activities. Unable to maintain employment or valued family activities. Interfere with valued life plans. Came to rely on important others (loss of reciprocity). Become ‘socially and environmentally restricted’. Acceptance or rejection of these limitations appears linked to age related expectations.

Walker 2006:368 loss – hope

Turmoil, chaos, turbulence. Patient wrestles powerful emotions of uncertainty about the future, fears of potential worsening of illness, and feelings of vulnerability and helplessness. Inability to make plans; need to live each day as it comes; not knowing what the future holds; fear of getting worse. Like Arthur Frank’s389 CHAOS narrative – ‘being shipwrecked by the storm of disease’ (p. 54). Describe life as imprisoned by pain with no knowledge of release.
Walker 2006:368 loss – identity

Patients distinguished private and public self. Agonised over what people thought and feared being seen as a ‘faker’. I am no longer who I was and I don’t like what I have become. At the same time, I am still the same person but others can no longer see it. This is exacerbated by reactions of others (e.g. why isn’t he giving up his seat?!) [Paradox: I am no longer the same person – I am still the same person]: private/public; old me/new me; fake/real. Gender expectations of behaviour exacerbate this dilemma.

Walker 2006:368 loss – relationships

Irritability, need to be alone, loss of trust and disbelief, lead to breakdown of physical and emotional relationship with partners. Also became isolated from friends and work. Came to know who to trust and who true friends were. For older people, dependence could sometimes increase contact with the family [doesn’t talk about the quality of this contact]

Werner 2003:369 applying the competence – encountering others

With renewed self-esteem following the programme patients were less reactive to and concerned about what others felt about their chronic pain, and less preoccupied with gaining approval.

Werner 2003:369 why can’t she just do it? – family

Negative reactions from husbands or others who could become annoyed or angry. They still expected them to be in charge of household tasks/usual roles. This made it more difficult for the participants to make use of the competence acquired from the treatment programme.

Werner 2003:369 applying the competence – focusing on resources (not pain)

Learned to be less focused on pain and more on personal resources and enhancement i.e. what can I actually DO rather than how do I FEEL; simply to ‘treat’ oneself or enjoy a pleasurable activity and mobility; making adjustments to amount of tasks to be undertaken in relation to bodily capacity and letting others know about this work capacity.

Werner 2003:369 why can’t she just do it? – friends

Well-intended advice from friends could also make it more difficult to apply the treatment benefit. The women often felt they were given advice as an accusation for not having been clever enough or working sufficiently hard to become healthy. Friendships could break down.

Werner 2003:369 why can’t she just do it? – health-care professionals

Health-care providers were mentioned as a cause of obstruction, by obstructing women’s desired treatment/not referring to specialist.

Werner 2003:369 applying the competence – informing others

Women now let others know of their limitations and capabilities. Being outspoken about personal needs and desires was said to be a constantly on-going internal and external process of work.

Werner 2003:369 for better or worse – awareness of needs

Responding to bodies fluctuating needs. Become more aware of signals of bodies needs and able to act upon them. More competent to allocate capacity in response to limitations. Yet within this
dynamic is the constancy of pain that forces the patient to accept (however reluctantly) and readjust to bodily limitations.

Werner 2003:369 applying the competence – knowing my body

I now know the capacity and limitations of my body and am prepared to respect it; I now have permission to adapt to capacity.

Werner 2003:369 for better or worse – recognition gives strength

Recognition and respect demonstrated within groups strengthened participants’ self-confidence and self-esteem while diminishing feelings of guilt for not being restored to full health. The participants described the strength, confidence, and awareness gained from the treatment programme as being useful bodily and emotionally, and gave social competence outside the group context.

Werner 2003:369 for better or worse – sorrow at loss

a. Negative effects due to the increased level of awareness which leads to sorrow at loss of aspects of self. An increased feeling of despair is caused by having to realise that you might never be restored to your former healthy state. Sorrow and bitterness at having to revise the picture of self.

b. Feelings of loss at the cessation of the group treatment therapy and its emotional support and reinforcement that they had experienced.

Werner 2003:369 applying the competence – thinking of me

Learned to think about myself and the things I can do for me.

Werner 2003:370 I don’t give up unless I have to

Women encountered significant difficulty in being accepted as credible patients by the benefits and medical systems, partners and friends. They dealt with these barriers mainly by persevering, being assertive, and not giving up. Felt ‘tested’ for mental disorder. Worked hard to ‘past test’.

Werner 2003:370 I feel I should look groggy

Have to negotiate their appearance (healthy, pretty, and smartly dressed) in encounters with health-care professionals as this impacted on whether or not these professionals would believe their stories of pain. Have to strike a balance between appearing too healthy/not too healthy. If you look too good or bad people won’t believe you.

Werner 2003:370 you have to tread rather softly

Women reported simply ‘accepting’ in silence the negative treatment meted out by social services and health-care professionals. They either chose to terminate the relationship or to allow someone else to present their arguments so that these professionals were not antagonised.

Werner 2004:371 I have always been so strong

I have always been physically strong but pain has made me physically weak. I have always been emotionally strong but there are times that pain is so bad that it has made me emotionally weak. Paradox – I am still a strong person. I have not chosen this. It is not my fault.
Werner 2004:371 some people pour out their troubles

Narrative of strength. Important to be strong and fighter not weak and complaining. On the one hand I am like those other women (because I have pain) but I am different (not one of those whiners). I am strong. I have a positive attitude, I don’t whine, I am never sick; I don’t go to the doctors. Women work to appear credible and distance themselves from ‘the others’. I am not to blame.

Fibromyalgia second-order constructs

Arnold 2008:373 cognitive impairment

Cognitive processes affected by fibromyalgia: forgetfulness, inability to drive, lack of motivation to undertake tasks and ‘fibro fog’; difficult to articulate thoughts; difficult to plan things; difficult to focus or keep attention.

Arnold 2008:373 function and quality of life – education

Could miss out on higher education because of inability to sit in class or concentrate for long periods.

Arnold 2008:373 emotional impact

Emotional disturbances – included depression and anxiety. Also embarrassed by having to explain illness or inability to undertake ‘simple’ tasks; frustrated by lack of medical and social understanding and at their own lost capabilities. Guilt over putting their needs first. Felt isolated and a burden on family.

Arnold 2008:373 function and quality of life – family

Described as ‘time spent with families was often reduced, and families frequently had to compensate for the participant’s absence by taking on more chores. Those who were mothers could not assist their children with homework or other school-related activities. Participants also mentioned not being able to go on family trips. Alternatively, fibromyalgia allowed the women to legitimise taking more time for themselves when they would otherwise have focused their energies on others’.

Arnold 2008:373 fatigue

Fatigue could be worse than pain; it was a constant presence in the lives of participants, who often had to limit activities to ensure that the tasks set for the day could be accomplished. They frequently cited the need to take naps and mentioned their tendency to fall asleep during the day.

Arnold 2008:373 pain

Pain constant and difficult to pinpoint.

Arnold 2008:373 function and quality of life – partners

Burden on family members and partners increased as they take on more chores and responsibilities. Sexual libido is affected leading to loss of intimate relationships.

Arnold 2008:373 sleep

Fatigue and pain interfered with sleep, making mornings especially difficult for most; bodies were racked with pain.
Arnold 2008:373 function and quality of life – social life

Unpredictability of fibromyalgia and fear of being judged unreliable prevented them becoming involved in social events. Some people were sceptical about pain and this could lead to loss of friendships.

Arnold 2008:373 function and quality of life – work

Frequently had to stop or change work due to inability to do competitive tasks or lack of concentration. This could have a financial impact, particularly in view of medical costs. Also impact on loss of identity; no longer ‘respected in my field’.

Cunningham 2006:375 living with the symptoms of fibromyalgia

Symptoms constant yet varying and unpredictable. Unable to engage in everyday life; need to give up former roles and activities and employment. Interferes with social life. Participants felt a burden to their families due to their disability. Invisibility of symptoms made it more difficult to manage psychologically.

de Vries 2011:324 success factors (work) – adjustment latitude

Involves a range of crucial adaptation strategies around prioritising work, being flexible in execution of tasks (e.g. using a mobile phone that allowed one to not be confined to a desk), adapting ways of working with colleagues (delegation of tasks and accepting assistance) and working in partnership with families (i.e. accepting support as may be necessary). Not everyone at work experiences this latitude at work

de Vries 2011:324 success factors (work) – coping with pain

Ambivalence about medication: for some it enabled them to stay in work, others did not want to take medication for fear it would mask symptoms or make them drowsy at work. Some wanted to stop medications and take control of the pain themselves. Others avoided provocative movements or were attentive to body signals. Many felt that acceptance was important to continuing at work and needed to stay active.

de Vries 2011:324 success factors (work) – pain beliefs

Pain threshold of all participants reported by them as being above average, allowing them to work despite pain. Sometimes this threshold diminished over time.

de Vries 2011:324 success factors (work) – personal characteristics

Moral narratives (character traits described as crucial to stay in work): perseverance, ambition, positive outlook, communicative, assertive, self-confident.

de Vries 2011:324 success factors (work) – use of health-care services

Some patients satisfied with advice and treatment options that allowed them to stay in work, while others were disappointed with the health-care services.

de Vries 2011:324 consequences of staying at work

Patients generally felt staying in work had many benefits. Dis-benefits included reduced opportunities for a social life and to pursue hobbies. Diminished capacity for leisure and pleasurable activities; increased pain and fatigue.
de Vries 2011: Motivators for staying at work – work as income

A strong motivator, especially if one owned the company.

de Vries 2011: Motivators for staying at work – work as responsibility

A few perceived their work role as indispensable and that others relied on them. Therefore felt their absence impacted on work productivity as they could not be substituted, therefore worked through pain to meet work responsibilities and to not place a burden on their colleagues.

de Vries 2011: Motivators for staying at work – work as therapy

Work is place for healing and recovery. Work distracts me from my pain. Work gives me energy to go on. Work gives my life structure and gives control over pain. Work gives social contact which further distracts from pain. Gives me self-respect and self-worth.

de Vries 2011: Motivators for staying at work – work as value

Work gave recognition, approval, self-realisation and self-respect. Work gives status and offers opportunity to be valued by peers. Work provides a mission to life. Gave link to society and value to life. Work is the ‘normal’ thing to do.

Gullacksen 2004: Stage 1 – prelude

Slow to change as pain often regarded as temporary at first. As sick periods got longer and effected life – reached a critical point.

Gullacksen 2004: Stage 1 – self-deception

Continued to hide pain and maintain ‘normality’. Various coping strategies adopted to hide illness, precluding social support for social survival, even though pain only worsens. Isolated in pain and in worry about future. Difficulty to explain situation to others and felt isolated and inadequate.

Gullacksen 2004: Stage 1 – struggling to restore life

Hoping for recovery and restored self. Person aimed to restore previous life and hold onto former identity. Maintaining ‘normal life’ outwardly and coping with pain an immense strain which they tried to keep hidden.

Gullacksen 2004: Stage 1 – acknowledgement

Acknowledging that pain was not temporary was crucial to adjustment. Necessary to give up the aspiration to return to life as ‘normal’. This grew as an ‘inner certainty’. No longer possible to hide situation. Now turned toward the future, although this did create anxiety about what future holds. Stopped waiting for a cure to be found and turned to own resources. Hope for recovery maintained BUT NO LONGER AN OBSTACLE to alternative possibilities. Change begun.

Gullacksen 2004: Stage 1 – confirmation by health-care professional

This helped to explain to others and increased understanding. Health-care professional diagnosis and attitude important in adjustment. Women had to ‘prove’ to others that they were ill and this could be construed as being ‘obsessive’. Disbelief by health-care professionals described as insulting and a threat to patients ‘reason’. All pervading doubt a drain on personal resources.
Gullacksen 2004: stage 2 – losing oneself

**Difficult** to automatically perform usual tasks. Uncertain about what body was capable of and this disrupted self-esteem and self-confidence. This a major threat to self-image. What have I become? Inability to rely on the body damages self-image and confidence.

Gullacksen 2004: stage 2 – sorrow and loss

Admission that pain not temporary often succeeded by an emotional crisis. Sorrow and loss strong (sometimes voiced and others hidden). They missed life as it used to be.

Gullacksen 2004: stage 2 – working through

Admission that pain was not temporary the beginning of adjustment. Cognitive and emotional acceptance that pain may be permanent and exploring new ways of dealing with limitations imposed by pain.

Gullacksen 2004: stage 2 – defining problems

Medical explanations important to removal of focus from body and self to other things in life (family, etc.) and finding a new sense of personal completeness.

Gullacksen 2004: stage 2 – finding solutions

Focus on repairing existence and relearning to live with pain.

Gullacksen 2004: stage 2 – leaving the sick role

As pain not temporary, taking on sick role (rest, withdrawal, and support from others) becomes problematic. Expectation of return to normal life entailed by sick role not fulfilled. Sick role behaviour becomes less desirable and did not want to be dependent on others. Tried to create new patterns and routines to achieve independence and ‘normality’. Sometimes difficult for others to accept need for independence in certain tasks. Patient rejection of support often confusing for others. Patients generally preferred emotional empathetic support.

Gullacksen 2004: stage 3 – maintenance (a new attitude)

Strength had to be rationed to prioritise activities. Had to come to terms with uncertainty of fluctuating symptoms. Had to balance desire versus capability. Sometimes chose to worsen pain to perform certain valued acts.

Gullacksen 2004: stage 3 – a new course of life

A challenging process of adopting new coping strategies in search to re-establish self and a sense of control. Difficult to sustain: constantly changing.

Gullacksen 2004: stage 3 – maintenance (handling future changes)

Normalising life in spite of pain demands skilful strategies of coping. Increased self-knowledge gained through this (hidden) struggle.
Gullacksen 2004: stage 3 – maintenance (regular self-care)

Although self-discipline and regularity were required for the successful undertaking of tasks, there was some pleasure and astonishment at being able to learn to live with pain despite all initial doubts.

Gustaffson 2004: developing body awareness

Theoretical and practical knowledge on course used a year later to improve energy, concentration, relaxation, confidence. Transformed from ignorance to knowledgeable.

Gustaffson 2004: changing self-image – handling the pain

Moved from trying to ignore pain to finding new ways (self-reflection and rest) of handling pain. No longer shame and self-doubt of pain; learnt to self-reflect, respect pain and limit demands.

Gustaffson 2004: changing self-image – housekeeper identity

New housekeeping strategies to reduce demands from self to others, listening to body and leave time for self. This category captured the day to day management of households and how their approach changed from being the slave to normality before the programme, to using the knowledge to manage the household chores differently.


Programme made them more willing to talk about pain. Pain now legitimate. Less doubt. More confidence.

Gustaffson 2004: setting limits – adjust workload

Change priorities, ask for help; leave time for myself. Decrease unpredictability of pain.

Gustaffson 2004: setting limits – adjusting self-demands

Through understanding and listening to their bodies and the boundaries they were able to set limits on their activity.

Gustaffson 2004: shame to respect

Started rehabilitation with feelings of shame and self-doubt. Felt disbelieved by health professionals and misunderstood by family. The group interaction realised a change from these negative emotions to a greater sense of respect and self-worth with more positive relations with others.

Gustaffson 2004: changing self-image – boundaries imposed

Boundaries imposed and curtailing life were seen as more flexible and could be determined by the person with chronic pain. Pacing activities and resting became ways to manage the pain.

Gustaffson 2004: shame to respect – negative factors

This captures the hopelessness often felt by not being able to enjoy activities which normally gave pleasure. A struggle with constant pain impacts on employment. Not being able to work as one wanted or had done previously, nor being able to undertake desired tasks and hobbies evoked a sense of despair and frustration.
Gustaffson 2004:327 shame to respect

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Gustaffson 2004:327 shame to respect

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Gustaffson 2004:327 setting limits – telling others

Programme has taught them to tell others about their condition and thus reduce demands on themselves [learn to say NO].

Hallberg 1998:328 maintaining forces – family support

Pain changes the roles within the family; husband takes on caring duties; children get less attention from mum; wife becomes dependent on husband; no longer viewed as sexual. Social and leisure activities outside of home decreased.

Hallberg 1998:328 psychosocial vulnerability – overcompensatory perseverance

Perseverance – over-compensating for illness by working harder than the norm at meeting the demands of life. Despite this over-compensation the women still felt inadequate and as though they did not measure up.

Hallberg 1998:328 maintaining forces – pain benefits

This category describes any advantages, implicitly or explicitly expressed in the interviews, of having chronic pain. When on sick-list, the women seemed to be relatively satisfied with their lives, partly due to a perceived balance between the external demands and their own resources.

Hallberg 1998:328 psychosocial vulnerability – pessimistic life view

Pain described bio-medically and dissatisfied that doctors had taken a long time to identify the problem. Uncertain about what they could now manage. Pain demanding much of the patient’s time and attention and made them less confident about managing things in the future. Life less meaningful.

Hallberg 1998:328 maintaining forces – professional care

Disbelieved by health-care professionals therefore hesitant about seeking their help, but also exaggerated condition when they did speak to them. Felt health-care professionals had no faith in their own capacity to help people with chronic pain. Diagnosis brought sense of relief as offered a form of validation, making it easier to tell others about illness, including employers.

Hallberg 1998:328 psychosocial vulnerability – traumatic life history

Emotional wear and tear over time: specific negative (e.g. alcoholism of a parent) and even traumatic past life events (such as death of a loved one or divorce) that escalate with the onset of illness and evoke a sense of hopelessness, helplessness, powerlessness and despair.
Hallberg 1998: psychosocial vulnerability – unsatisfying work situation

“This category is comprised of four substantive codes, “low-valued job”, “strenuous job”, “controlled work tasks”, and “personal dissatisfaction”, and describes the women’s view of their work situation’ (p. 99).

Hallberg 2000: preoccupied with pain – pain communication

Pain made patients irritable which in turn affected the way in which they behaved towards others, although there were rigid attempts to conceal emotions (low mood, tears etc.), even from closest friends. This made them appear perfectly cheerful and healthy externally while racked with pain internally.

Hellström 1999: avoiding thoughts of future

Focused on limitations of illness and held onto safe and familiar routines to avoid thinking of the future.

Hellström 1999: demands on self

Unable to manage the high demands they placed on themselves and undertake previous activities. For some fibromyalgia gave a chance to slow down. Patients struggled to balance the deficit between ideal and achievable self.

Hellström 1999: managing threatened failure

Irresistible fatigue given as a reason to delay decision-making and deal with the incapacitating effects of illness (I really want to do it but I can’t). The texts seemed to demonstrate the patients’ attempts to connect a feared inability and the existence of an incapacitating illness.

Hellström 1999: onset

Onset temporal well defined and linked to significant unpredictable life event e.g. car crash.

Hellström 1999: search for a cause

Looked for meaning and cause of illness within their lives. FELT disbelieved as many felt the women were experiencing pain that was all in the head. Rejected psych explanations but felt illness led to mental problems.

Hellström 1999: search for confirmations as ill

Search for diagnosis validates; diagnosis gave relief as ‘not serious’ disease but diagnosis of fibromyalgia made it difficult for them to convince doctors that they had any other illness. Only others who are ill understand me.

Hellström 1999: unpredictable, invisible, incapacitating

Illness unpredictable, invisible incapacitating.

Kelley 1997: changes over time

Less focus on losses over time, and greater acceptance; new sense of empowerment. Fears of ongoing need of advocacy and support groups for the future.
Kelley 1997: feeling understood

*Feeling understood important for overall sense of wellbeing. All discussed loss of validation (family, friends, and some health-care professionals). Diagnosis validating. Grateful for validation. As group progressed they became more accepting of partial understanding and that total understanding.*

Kelley 1997: group approach

*Appreciation of emphasis on whole person and coping strategies, that aided controlling life irrespective of pain and ‘refocusing’ to pain as a part of a process of acceptance, adopted from group sessions.*

Kelley 1997: loss

*Overwhelming loss (work, leisure, home, relationships, independence).*

Kelley 1997: resources

*Participants became more resourceful in pacing and substituting activities to cope with illness.*

Kelley 1997: self-esteem

*Not feeling validated, not able to help others, not wanting to ask for help ‘feel like a burden or failure’. As they learned to externalise the condition as not intrinsic to themselves, fighting the effects of their illness made them feel stronger.*

Kelley 1997: support and empowerment

*Learned to ask for help from friends and family; linked to most positive self-esteem.*

Lachapelle 2008: barriers to acceptance – support and belief of others

*Lack of support and belief from others is a barrier to acceptance. It was important to have a concrete diagnosis to feel legitimate and get support from others. Friends, colleagues and families began to treat them the same as the health-care professionals did. Delays in diagnosis damaging to fibromyalgia women’s social (support) networks.*

Lachapelle 2008: barriers to acceptance – unrelenting pain and fatigue

*Unrelenting pain and fatigue – women drained of physical and emotional resources.*

Lachapelle 2008: barriers to acceptance – fight to be normal

*Mounching losses and fight to be normal; struggle to maintain pre-pain identity. Felt they had let the pain ‘win’. Struggled to maintain normalcy; ‘put on a play’ ‘cover it up’. Acceptance meant you had to take on changes and accept changed identity (sometimes felt guilty for this e.g. gender roles).*

Lachapelle 2008: facilitators to acceptance – self-management education

*Having a diagnosis was a key turning point for them to seek out information about their condition. Effective self-management linked to the undertaking of non-medical strategies that improved ability to perform activities desired despite pain, empowering patients to take control of their lives. Women with fibromyalgia more self-reliant in educating themselves about illness compared to women with arthritis who received greater access to information for health and specialist organisational sources.*
Lachapelle 2008: Facilitators to acceptance – perceived social support

Emotional support from friends and balanced counterbalanced by a concern over not overburdening. Limited by a lack of understanding on the part of supporters and fears the possible onset of supporter fatigue. Support groups ambiguous; some offered a safe haven whilst others perceived as discouraging and designed to force on participants a particular agenda. Professional counselling could help to mourn loss of old self and redefine new identity.

Lachapelle 2008: Meaning of acceptance

Meaning of acceptance ambiguous; implies giving in/resignation. Patients ‘preferred expressions such as “embracing”, “dealing” or “coming to terms” with their pain’ (p. 203). Means pursuing life activities in spite of pain. I am willing to engage rather than avoid. Hope for improvement in pain and symptoms not incompatible with acceptance of current state. Retained hope for reduced pain at the same time as accepting chronicity of pain, and that there was no cure for pain. Acceptance begins with giving up hope of cure.

Lachapelle 2008: Process of acceptance – ongoing process

Acceptance was not an all or nothing process. Repeated moments of reflection. You made decisions on a daily basis and setbacks occurred on bad days. Easier to accept pain on a cognitive than an emotional level.

Lachapelle 2008: Process of acceptance – realising need for help, getting diagnosis, realising no cure, it could be worse

Four stages of acceptance:

realisation that this is not normal and I need medical help;

receiving a diagnosis (and thus legitimacy as ‘real’);

realisation there is no cure and had to get on with it (this stage often repeated time and time again when hope of a cure are raised (by medicines or surgery);

realisation things could be worse (comforted by identification of people who are worse off).

Lachapelle 2008: Process of acceptance – redefining normal

Letting go of pre-pain self-expectations and shifting their focus to what they could accomplish now, despite the pain, was an important next step. The knowledge that no return to pain-free status possible. Followed by a grieving of losses and a redefinition of goals, although conscious of having the power to also choose a path of giving in to negative emotions.

Lempp 2009: Change in health identity

Illness became increasingly intrusive in life and began to undermine their confidence and sense of self. Self-esteem undermined. Fear of not being able to rely on body and the unpredictability of the illness.

Lempp 2009: Quality of care – ethnicity

Black and ethnic minority patients were uneasy about prescription medicines and mistrusted health-care professionals
Lempp 2009 quality of care – GPs

GPs sympathetic but don’t spend enough time, unresponsive to needs and limited to prescribing medication.

Lempp 2009 quality of care – hospital specialists

Hospital outpatient departments were criticised for poor organisation (e.g. cancelled appointments) and professional attitudes.

Lempp 2009 change in health identity – impact on social life

Patients became less able to go out, particularly spontaneously (physical difficulties or embarrassment) and became socially isolated. Those who left work became isolated from colleagues; those who remained at work also became isolated because of lack of understanding. In public patients felt misunderstood and stigmatised. Viewed as ‘invalids’ by people around them. Some tried to hide their disability. Had to find a balance between wanting/needling support but retaining independence. Illness took its toll on relationships. Patients worried about the future, becoming dependent on others and how to fill their own caring roles.

Lempp 2009 quality of care – interventions

Ambivalence to medication; concern over dependence and that it might mask symptoms but not ‘cure’ the disease. Drugs ineffective for pain relief and most ‘followed their own intuition rather than medical advice’. Physiotherapy whilst positive for some, on the whole brought up negative memories. Many tried alternative medicine/therapy, again with little relief apart from use of heat.

Lempp 2009 change in health identity – mental distress

Depression, anxiety, cognitive problems and lack of co-ordination were all reported. People described feeling suicidal and spiralling down. The inability to remember things was referred to as ‘fibro fog or foggy brained’ and this was distressing.

Lempp 2009 change in health identity – physical problems

Virtually constant overwhelming total body pain has physical and mental toll, as well as having an effect on their usual behaviour. Some could not remember a pain free day. Many unable to function ‘normally’ due to chronic sleeplessness resulting in debilitating fatigue. Co-morbidities and abdominal symptoms exacerbated their condition. Also discussed difficulty with mobility and resulting isolation.

Liedberg 2002 structural social factors – commuting

An additional strain in terms of getting to work and many of the respondents were dependent on others helping them with transportation.

Liedberg 2002 structural social factors – finances

Finances not always the motivator to stay in work. Some had spousal support in terms of finances, single mothers found that finances dominated their decision to remain in work, and other patients preferred to decrease hours of work to maintain a work role.
Liedberg 2002. Values and norms – fulfilment in work

Conflict between accepting new limitations imposed by illness and desire to be responsible workers. Participants describe themselves as dutiful, responsible and loyal and gain fulfilment from their work. They find it hard to relinquish roles.

Liedberg 2002. Values and norms – meaning of work

Work valued by respondents as it made them feel useful members of society, appreciated by others and able to socialise. Many mourned over their lost professional identity [you are what you do at work]. Experience loss of work role and social contacts that go with it.

Liedberg 2002. Values and norms – organised time structure

Work role important perceived as integral to time structure for daily routine in personal pain management. Disliked sick leave as disrupted this time pattern. They endeavour to maintain some kind of time structure and routine even if professional role lost, and new ‘work’ is simply that of helping others.

Liedberg 2002. Working conditions – physical work

Tasks that allow varied work posture preferred. Sleep disturbances made many of the women tired, and this impacted on their undertaking and maintaining the requirements of work/employment.

Liedberg 2002. Working conditions – psychosocial environment

Work relations important for motivation to return to work and for job satisfaction. Employment related changes often disruptive to these relationships. Understanding from colleagues and employer confidence in their ability to accomplish their work roles valued. Opportunities to influence work schedule and hours to facilitate return to work also valued.

Liedberg 2002. Other commitments – social relations

Cut off from social contacts made when previously employed and family relations are affected for those who remain in work and wrestle with fatigue and other symptoms of their illness at the end of the work day.

Liedberg 2002. Other commitments – unpaid work

Home maintenance, raising children and looking after elderly relatives were all commitments these women had. Other aspects were commitments due to their spouses’ career, e.g. receiving guest at home. Women highlighted the difficulty of having enough energy for family and work. Spousal support valued as this allowed for sharing of household responsibilities. A need to prioritise responsibilities, with leisure activities often being neglected and the time used to rest instead.

Liedberg 2002. Structural social factors – work restructuring

Restructuring in the labour market has meant changing roles and in some instances increased workload and hours of work. This creates instability, uncertainty about the future and increased pain as fibromyalgia patients struggle to cope with these pressures. Unable to rely on colleagues to help as they too are stretched. The attitude experienced at work is that if someone can’t manage the tasks or the environment has to be changed they shouldn’t be at work.
Lofgren 2006:337 social support

Described as: ‘To know that family members knew, supported and understood, gave strength and helped the informants keep the self-confidence to go on struggling’ (p. 452).

Lofgren 2006:337 constant struggle – being knowledgeable

Described this as ‘learning everything there is to know about fibromyalgia. They read the journals and the Internet and/or discussed with others. The knowledge gave them both self-esteem and respect for others similarly placed. It helped them find new ways to cope and encouraged them in thinking about their pain as not dangerous’ (p. 452).

Lofgren 2006:337 constant struggle

Every aspect of life changed and there would be no release.

Lofgren 2006:337 constant struggle – creative solutions

This concept was about ways in which sufferers managed everyday tasks and activities in a way which enabled them to complete them; in their own time. Planning and adapting activities assists in dealing with effects of illness. Found creative solutions to adapt day to make it more manageable.

Lofgren 2006:337 constant struggle – enjoying life

Making time for pleasures of every day. Conscious strategy to enjoy the small things in life (like putting a candle on the table).

Lofgren 2006:337 grieving

The sense of loss of a previous life but also the time when the process of grieving allows a turning point and new opportunities. Entailed working through loss of former self and body to reach a point of finding new ways to live life. Work through feelings of disappointment, self-blame, sadness, despair, regret. Grieving process important to rehabilitation.

Lofgren 2006:337 constant struggle – positive thinking

Making the best of life. Trying to be content and seeing the advantages of fibromyalgia for a more positive outlook on illness and its effects. Adapting one’s lifestyle as one gains improved understanding of the limits of the illness.

Lofgren 2006:337 constant struggle – setting limits

Described this as ‘It was important to set limits by prioritising and lowering one’s demands; it was also a matter of adapting life and oneself to one’s limitations. It was difficult to learn how to keep a slow pace and divide up strenuous activities; and how to stop in time. The informants used trial and error to learn their limits’ (p. 451).

Lofgren 2006:337 constant struggle – taking care of yourself

Striving for bodily balance; taking care of the balance of rest and exercise to reduce stressing the body.
Lofgren 2006:337 constant struggle – using pain as a guide

Become experts in body awareness. Increased awareness of body used to avoid worsening of pain when they were able. At other times they chose to accept an increase in pain. Explored pain without fear and chose to stop or ignore it. Responsiveness to pain signals enhanced by avoiding medication. Medication more useful if one was unable to stop activity at the point of pain.

Lofgren 2006:337 constant struggle – walking a tight-rope

Everything in life had to be planned with regard to their bodies; e.g. rest at weekend to be able to work. Describes the precariousness of being able to work and ways to balance/manage life to ensure they could work.

Madden 2006:339 seeking answers – biomedical ambiguity

Fibromyalgia symptoms wide-ranging and ambiguous; difficulty of locating specific symptoms with the illness. This led to confusion over definition of diagnosis; feeling that no one really knows what it is. ‘the diagnosis is seemingly adapted to suit the presentation of the illness, rather than the illness fitting within a predefined diagnostic framework’ (p. 2971).

Madden 2006:339 discovering a disease – fibromyalgia empty diagnosis

Participants felt that they had received an empty diagnosis: difficult to explain to others as not really understood by patient – ‘uncertainty based hitherto on a lack of knowledge was replaced by a new type of uncertainty, stemming from a diagnosis that conveyed no meaning, inspired little confidence, and created no real basis for understanding or coping with the illness experience’ (p. 2967).

Madden 2006:339 discovering a disease – identifying an organic being

Diagnosis perceived by patients as validation of suspicions of illness – ‘the diagnosis is the product of an interaction between the doctor and the individual’s body, and the person’s self is effectively excluded. The diagnosis also legitimates the person’s claim that the illness exists, thereby validating it to the wider social world’ (p. 2966).

Madden 2006:339 seeking answers – invisibility of fibromyalgia

Invisibility makes it difficult to explain to others – ‘informants interpreted information given to them as trivializing the illness, as it failed to acknowledge the nature and authenticity of the illness experience. Although such language may be intended to reassure the patient, in effect it is interpreted as invalidating the diagnosis’ (p. 2970).

Madden 2006:339 seeking answers – patterns of acceptance

Acceptance ranged from complete (did not acknowledge uncertainty of diagnosis); partial (continued to search for meaning in face of uncertainty. Clinical uncertainty allowed them to retain hope that uncertainty would be resolved); reject (fibromyalgia and an umbrella term with no meaning as an illness).

Madden 2006:339 seeking answers – resolving uncertainty

Health-care professionals seem to avoid discussion on meaning of the diagnosis. All new symptoms not investigated but put down to fibromyalgia – fibromyalgia gains master status. Expected to accept and move forward. ‘Informants assume a diagnosis to operate within a biomedical framework,
where a diagnosis has a uniform meaning. However, FMS appears to have a continually changing
definition, which is adapted by health professionals and support group literature to suit the
presentation of the illness’ (p. 2968).

Madden 2006:339 seeking answers – why me?

Participants searched for reason or cause for their fibromyalgia, often looking for physical triggers e.g.
a car accident. They need to make sense of their illness within their own lives. Many questions
remained unanswered for patients.

Mannerkorpi 1999:340 giving up

Symptoms dominated every aspect of their lives which was now very limited. Could not plan or
participate in life. Symptoms frightening and unmanageable. This despondency made some give up
activities previously enjoyed and submit to the inevitable dominance of pain.

Mannerkorpi 1999:340 despair

Could not cope and found life task unmanageable. Lack of clinical findings increased despair. Felt
changed in an incomprehensible and negative way. Sense of dejection and anguish.

Mannerkorpi 1999:340 adapting

Understanding of limitations imposed by pain and operating within these seemed to convey some
sense of control over life despite presence of pain. Shared resources between work and social.
Wanted to continue working as it brought fulfilment, but at some time ambivalent due to strain it
brought. Expectations of others that they could not fulfil was a source of tension although this made
them feel tougher (a sense of the SURVIVOR here).

Mannerkorpi 1999:340 struggling

Struggled to mobilise resources to manage pain and fatigue. Leisure activities reduced but work given
higher priority and improved self-esteem. Many chose to be active even if they could not manage as
felt activity was beneficial. For mothers, looking after children took priority (‘that’s what mums do’).

Mengshoel 2004:341 a new interpretation

Come to understand that diagnosis fibromyalgia had its limits and only a label for pain in muscles. No
longer preoccupied with seeking biomedical explanation. They talked about strategies to end the pain
which involved listening to their body and take things slowly when needed. Realise there is a close
link with pain and life events. Cause of symptoms sought in everyday life. They described living life on
a knife edge and they need to take precautions to stay healthy. Learned to slow down and assess
situation to avoid relapse. New strategy of analysing life events.

Mengshoel 2004:341 ambivalence about diagnosis

Patients still want a biomedical diagnosis and are unhappy to have a diagnosis based on subjective
criteria. Diagnosis of fibromyalgia a relief (as not a fatal disease) as well as a burden (as not rooted in
fully treatable biological signs and viewed with much scepticism).
Mengshoel 2004: redefining obligations and goals

The women were very aware and determined women who could reflect on their experience and formulate a plan for recovery. They understood what they could change and what they couldn’t. Therefore they were able to achieve their goals in life by giving themselves more time to do things and giving more priority to their own needs. This developed their self-esteem and self-awareness.

Mengshoel 2004: resisting a sick role

Adapting to fibromyalgia can mean adopting a passive sick role. This conflicted with their view of themselves as active subjects with demanding social roles. There was a discrepancy between how they saw themselves and how others saw them. They felt there were conscientious with work whereas as others accused them, directly or indirectly, of being work shy and classed their health problem as fictitious. Recovery is about avoiding perceptions of ‘being sick’ and at the same time redefine what is essential goals and meaning for their lives. This ability to come OUT of sick role empowered recovery.

Mengshoel 2004: uncertainty of treatment

This study includes women who have recovered – restoration narratives. Viewed fibromyalgia as temporary and curable. Dissatisfaction over lack of effective treatment. Many treatments tried to find a cure. Explained disease and recovery through medicalised explanations e.g. pregnancy, penicillin. (Confirms Frank’s medical plot.)

Mengshoel 2004: unwilling to celebrate illness

The women actively resisted the sick role through participation in the fibromyalgia patients’ association and non-disclosure to employers, for example; did not want to ‘celebrate illness’ with other sufferers. Described it as a fellowship designed to endure a hopeless fate. Keep it quiet.

Paulson 2001: calm and difficult phases

The pain went in waves. In the calm phase, the men imagined a healthy future. They began to work harder and risked overstepping their capacity. In the difficult phase life turned darker when the rebound comes. This phase was when the pain was at its worst and most frightening. The difficult phases appear to get longer and longer over time. Although they become specialists in their own pain they cannot describe it to others to make them understand. Men earnestly affirm that pain is in their body; they use a metaphor to describe pain.

Paulson 2001: local to spread-out pain

Localised pain can spread out over all of body. Exercise helped only in early stages, and then it became too painful to use this strategy to relieve pain. Frustrating.

Paulson 2001: worrying and not worrying pain (concept not developed)

Single areas of the body that ached but were mobile were less worrying than a situation where multiple areas experienced intense pain.
Paulson 2002:346 striving to endure – living as normally as possible

Tried to maintain contact with family and friends during less painful periods and valued these moments. Tried not to express how they were feeling as did not wish to appear to be whiners. Role models of older men in family of being stoical; I can do it too. Sad for loss of family life but comforted themselves with the thought that things might have been worse.

Paulson 2002:346 body as obstruction – living day by day

Fluctuations in pain mean you have to live by the moment, not plan for future. Need to live life at your own speed so you can maintain participation.

Paulson 2002:346 being a different man – not being the same

No longer a whole man. Had lived life at high tempo, cheerful, kind, offered help. Not the same – could no longer manage multiple activities due to failing strength and inability to concentrate (compounded by feelings of sorrow for lost abilities; isolation when not treated like others at work; irritability that affected relationships; and suicidal thoughts due to these). Anger, often directed towards family. Over time came to accept and worry less what people felt.

Paulson 2002:346 being a different man – not understood

People might believe me but do not understand. I used to think that people with back pain were exaggerating. Realised why others found it difficult to understand. Sad that children could not understand why they couldn’t be a ‘normal’ dad.

Paulson 2002:346 striving to endure – nurturing hope

The men had come to terms with a future that may not be pain free. This seemed to help them to be hopeful for the future. Keep courage.

Paulson 2002:346 body as obstruction – reluctant body

Reluctant body – body in constant pain (whether active or still) that pervaded all over. Image of it as unresponsive to person’s desire for activity. Loss of capacity to play and work as before. Work capacity diminished, making men anxious about the financial implications.

Paulson 2002:346 striving to endure – search for alleviation

Felt lives could be different if pain went. Searched for ways to lessen pain and improve quality of life. May include medication, or trying to work through pain or even periods alone. Peace of mind found from gaining access to disability pensions as no longer had to explain invisible symptoms.

Paulson 2002:347 feeling hopeful

Still hopeful of a cure even after years of trying various medical and non-medical treatments. Relieved when other bodily discomforts diagnosed as symptom of illness.
Paulson 2002: feeling neglected

This seemed to encapsulate the feelings of not being believed by health professionals and treated disrespectfully. Men felt that over time doctors lost interest in them as not a high profile condition (and no cure found). Felt doctors thought they were exaggerating their condition. Aware or stigma of being ‘lazy’ associated with non-specific pain. Also too many different professionals, so difficult to establish a relationship or sustain quality of care.

Paulson 2002: feeling no recovery

Specialist clinic gave strategies to relieve pain along with awareness that there was no cure.

Paulson 2002: guinea pig

About wanting thorough examination but not wishing so many different ‘trial and error’ treatments. Men felt that they were being subjected to a range of treatments with no benefits. Also dissatisfied with physicians prescribing medication without discussing other treatment options.

Paulson 2002: not being a whiner

Most of the men seemed to have remained with pain until a point of (near) collapse before seeking medical help (often persuaded by their partner) as they did not wish to appear as whiners. Even when sick leave was recommended by physician and allowed by employer the men insisted on getting back to work as soon as possible. Were aware of lack of credibility of fibromyalgia and were reluctant to divulge all symptoms or anxiety there were causing.

Raheim 2006: typologies – ambivalence

Ambivalence – not quite managing to keep control through day; mechanisms breaking down; unable to ask for the help needed. A constant balance between taking and losing control. Finding ways to gain control gives hope but this is taken away by a body which lets one down. Asking for help and explaining pain is difficult.

Raheim 2006: typologies – coping

A dialogue between the body and self creates a caring relationship despite its treachery. Dialogue with partner and family about pain and resulting needs integral to adjustment and gaining the support of others. Working with the body and not against.

Raheim 2006: theoretical interpretation – lived time and space

This captures both the trapped dimensions of being caught in the rhythms of a life with no structure (an endless here and now) and one of reaching beyond this enclosure to an outside world (establishing a structure or routine to deal with unwilling body).

Raheim 2006: theoretical interpretation – lived body

There now exists a dialogue between self and body which is either positive or negative.

- impossible enemy – antagonistic (parasitic) dualism; homeless in body
- friendly dialogue – symbiotic dualism; at home in my body.
Participants describe dualism in body in pain with a distinction between self and body. No longer unconscious of the body but more aware of it, while paradoxically feeling ‘homeless in one’s own body’ and wanting to escape from it. Other patients do not report feelings of disintegration, but rather view the body in pain as a ‘problematic friend’ with which they can cope.

Raheim 2006:348 theoretical interpretation – lived relations

Chronic pain alters the relationships we have and can either destroy (detached/dissociated relationship/destroy) or allow us to build new relationships (mutuality/reciprocal relationship/build up) as we redefine who we are.

Raheim 2006:348 typologies – powerlessness

At will of the painful body: feeling powerless to control body and carry through daily routines or plans. Feels misunderstood and unsupported by husband, with additional feelings of guilt in being unable to meet needs of family or work. Feels hopeless at inability to prevent growing distance between self and family.

Raymond 2000:349 establishing coping strategies

Understanding illness enabled accommodation. Gathering information was an important step. Patients also reported a perceived need to be allowed to mourn loss of previous capabilities. Came to recognise the individual nature of coping strategies (what works for you). Person also has to learn their own limits by trial and error. Accepting and acknowledging limitations enabled coping strategies (e.g. establishing routines) BUT felt loss/grief over former self. Useful to meet others with fibromyalgia at first (I am not the only one) but over time this lost its value.

Raymond 2000:349 experiencing symptoms

Women felt some specific event (and mostly stress) precipitated illness.

Raymond 2000:349 seeking a diagnosis

Achieving a diagnosis challenging – everyone says I am in perfect health. Disbelieved by health-care professionals. Lack of understanding and acknowledgement of symptoms by those close to them. It is an invisible illness. This results in social isolation for fear of rejection. Relief at getting a diagnosis was a springboard to gathering information yet short lived due to concern over future.

Sallinen 2010:351 confusion

This describes a search for diagnosis and the challenge of validity in dealing with health-care professional disbelief. Tension: knowing something is wrong but not what it is. Dr keeps saying nothing wrong. Invisibility an obstacle for being seen as ‘real’ patient.

Sallinen 2010:351 coping with fluctuating symptoms

Process of learning to live with fluctuating symptoms but adopting strategies of prioritising, pacing and work adjustments. Others experienced release from work an amnesty, as it allowed them to break down tasks and listen to their body. Able to maintain role with some compromises. Coping was expressed as an acceptable goal of recovery, thus recognizing that full remission might not be possible.
Sallinen 2010: being over the edge

Work saps resources until no reserve. Forced out of work by sheer exhaustion of struggling to work. Negative events in personal life (divorce, death of relative, etc.) can sap remaining strength and force decision to leave work. Resources run dry.

Sallinen 2010: being in-between

Refers to the process of moving back and forth between full work ability and work disability.

a. working in poor health and exceeding capacity

b. forced out of work into long term sick yet access to benefits denied = stress and financial difficulties.

Sallinen 2011: experiential knowledge

Fibromyalgia experienced as an ‘unreal disease’. This theme captures the thirst for knowledge about their condition as experienced by others but also the scientific knowledge made available through a specialist centre. Learning from the practical experience of others with fibromyalgia was an important part of changing this perception. Helped them to see fibromyalgia as something ‘real’ that was experienced on a daily basis by others who could provide practical knowledge.

Sallinen 2011: permission to talk

Peer encounters often a turning point after wrestling with disbelief for a long time. Had kept feelings to themselves so as not to jeopardise existing relationships. Now had ‘permission to talk’ with genuinely interested peers. It captures the relief and joy of feeling free to unburden the experiences of pain with those who did not judge.

Sallinen 2011: reciprocity

Describes the strong felt need to give back the comfort and support derived from others but at the same time recognising that for some sufferers their lives demanded too much and they were not able to provide this. Receiving and giving support, comfort and understanding important. The feeling of being an outsider replaced by feeling part of a group and not alone. Able to share with peers with a similar illness trajectory and life events. Sharing of experiences often based on desire for this to help others. Value of group reciprocity diminished over time as many too ill or too well to benefit from this.

Sallinen 2011: self-evaluation through comparison

Group interaction allows for comparisons that can change one's perspective of one's life as one is able to walk in another person's shoes albeit for just a little while (there is always folk worse than you). Compared themselves favourably to those with diseases (e.g. rheumatoid arthritis or depression). Saw themselves as ‘mentally strong’ compared to others. Seeing those with worse condition motivated them to take care of themselves.

Schaefer 2005: secrecy makes it easier

A certain amount of secrecy makes it easier to live with the illness. Intolerance of society toward people with illness and disability, and in particular fibromyalgia which is difficult to explain. Secrecy from family was more about not wanting to be a burden.
Schaefer 2005: support from self and spiritual connections

This emphasis how many women found inner strength through reflection and their own personal approaches to help themselves. It often appeared to follow on from a period of anger or hopeless about their condition.

Schaefer 2005: accused of taking a free ride

Being accused of ‘taking a free ride’ angers them. The illness often led to disbelief in others.

Schaefer 2005: camouflaging with medications

Medication camouflaged pain and made women overdo things. Weighing the effect of the medicines and the degree of symptom reduction, several of the women decided they might feel better off the medicines, so they stopped taking them. Sought out alternatives.

Schaefer 2005: becoming a self-advocate

Being disbelieved or not given a diagnosis was commonly described. Once they had a diagnosis they sought out information from the internet, other sufferers and gained strength from the information gleaned.

Soderberg 1999: loss of freedom – body in pain

Pain pervades the entire body. Difficult to describe (patients often alluding to metaphors for assistance).

Soderberg 1999: loss of freedom – changed everyday life

Life more regulated; difficult to plan ahead or be spontaneous. Often dependant on others. Missed their old lives. Social life restricted.

Soderberg 1999: threat to integrity – credibility and invisibility

Lack of belief from others; not taken seriously; others felt it imaginary or psychological. Naming the illness meant that it existed. If you don’t look sick you are not sick. Diagnosis and participation in research increased credibility. Felt lucky to be believed. Lack of belief a threat to their human dignity, thus depriving opportunity to be a whole human being. Engagement implies ‘fraternity’ i.e. treat someone like your brother.

Soderberg 1999: loss of freedom – economic restrictions

Economic loss due to inability to work; limited possibilities for alternate therapies.

Soderberg 1999: loss of freedom – fatigue

Absolute and overwhelming fatigue and loss of energy. Impacts on ability to undertake daily tasks.

Soderberg 1999: threat to integrity – lack of knowledge and negative attitude

Participants felt that dissemination of knowledge is important for social awareness of condition, and dissolution of negative social attitudes. Negative attitudes violated patients’ sense of respect as human beings. Threatened their integrity.
Soderberg 1999. struggle for understanding – seeking explanations

To be stricken with illness without understanding why is the classic dilemma of Job. An explanation does more than identify biological process. Explanation and understanding give relief. Diagnosis positive because you know the illness is not grave. Also makes unbelievable acceptable. Also makes it easier to accept and know you are not alone. Understanding through experience gives relief. ‘An explanation can contribute to living a life of dignity’ (p. 581).

Soderberg 1999. struggle for understanding – seeking relief and planning life

Tried many treatments in struggle to adapt to manage life. Reliant on a process of trial and error linked to medical and alternative treatments, but important to managing of everyday life.

Soderberg 2001. learning to live with fibromyalgia

Learnt to live with restrictions and take your time. Changes that the women struggle to make go mostly unnoticed and unappreciated by others.

Soderberg 2001. transitions – social life

No longer had energy to meet socially. Big impact on social life. Friends don’t necessarily understand. A sense of sharing with others who are also ill. Illness had made them more tolerant of others. Socially people commented on how good they looked.

Soderberg 2001. transitions – family life

Relationship with husband and children altered. Women’s family lives become more passive. Forced to ask for help. Some family did not understand the invisible alteration. Children have to help more in the home. Guilt about now helping older relatives. Change in intimate relationships.

Soderberg 2001. transitions – working life

Unable to sustain work. Lack of understanding form colleagues led to feeling of alienation. (One example of boss who ‘tailor made’ job to suit). Leaving work had impact on self-value. A sense of sorrow about having to make these changes. Some changed jobs or did job retraining.

Soderberg 2001. transitions – daily life

Daily life disrupted as ‘the spirit is willing but the flesh is weak’ and there is diminished strength to undertake previous activities. Monotonous lifestyle. Life more passive. Unable to plan day or future. Most getting used to this new way of living but also angry and bitter, though generally hopeful for a cure in the future.

Sturge-Jacobs 2002. dealing with flare-ups

Flare-ups are fluctuating, unpredictable and uncontrollable. Characterised by worsening of physical and cognitive impairments of fibromyalgia.

Sturge-Jacobs 2002. fatigue invisible foe

Fatigue engulfing, insurmountable and overwhelming, insidious, unseen and uncontrollable. Affects all aspects of life. Activities had to be avoided or prioritised. Fear of becoming a burden on friends and family (i.e. non-reciprocal relationships). Always receiving help and not giving.
Seeking some measure of control over limitations imposed by illness through acceptance that there are limitations, and diverting energies into positive activities rather than complaining. This acknowledgment was vital to their being in control of the condition, rather than the condition controlling them.

Conflict between the ‘normal’ exterior versus inner pain. Took great efforts to retain normalcy of life. Participants make a conscious effort to convey to others that their lives and that of their families are no different than other families not dealing with a chronic illness. Need to be seen as a person not just ‘a disease’; don’t want others to think of them as different to their normal self [am still the same person]. This linked to self-worth and self-value.

Constant agonizing nature of pain. Pain continually present and limited ability to do things. However as not visible was not understood/believed by others. Lacked validity by health-care professional and significant others as no pathology. Pain difficult to control and left women feeling powerless. Resulted in social isolation as well as loss of intimate relationships. Also affected ‘normal’ gendered social roles (mother, wife, grandmother, friend). Undermines self-worth.

Fruitless visits to medics in constant quest for diagnosis. Dismissed as psychological illness but women continued to seek diagnosis. Often endures inappropriate treatment and labels of their pain being ‘all in the head’.

Brain ‘in a fog’; unable to concentrate or think clearly. Difficulties with problem solving, abstract thinking, and the inability to make appropriate judgement calls or on-the-spot decisions were areas of concern for all participants. Mind and body ‘constantly at odds’. Sense of being in a dark place. Could affect ability to continue meaningful employment.

Patients search for a diagnosis impeded by GPs reluctance to use a diagnosis of fibromyalgia. Patients saw doctors hoping for relief and explanations but had difficulty explaining their symptoms. Several participants described doctors who were hesitant or dismissive, claiming fibromyalgia was a fashion tag.

Relief at diagnosis (not terminal and I have GOT something) followed by conflict (what is the cause, no cure, fear of stigma, meant inevitable disability, disbelief by others, or not taken seriously ‘just a bit of fibromyalgia’). Diagnosis brought no understanding or appreciation. Despair and sorrow when they realised the impact of fibromyalgia on their lives. This process was lonely. Some people expected improvement after diagnosis and it was difficult for the women to explain the lack of progress. Some women remarked that their doctors felt that fibromyalgia was just a word associated with hysterical women. This turmoil leads some to continue to search for a different diagnosis.
Appendix 4  Tables showing team memos and second-order constructs supporting each conceptual category

Team memos and second-order constructs for ‘alienated versus integrated body’

Team memos describing category:
Pain external to me; self and body opposing; pain not me; still me but not me; body external to me; self vs. body;
pain threatens me; pain taking ownership of body
In some cases a new self with pain emerges; body alien
Pain brings an awareness of the body as a foreign alien (like Leder’s dys-appearance)

Collaborative translations supporting category

<table>
<thead>
<tr>
<th>MSK</th>
<th>Fibromyalgia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osborn 2008:344 fearfulness of pain</td>
<td>Raheim 2006:348 theoretical interpretation – lived body</td>
</tr>
<tr>
<td>Crowe 2010:352 externalisation of the body</td>
<td>Sturge-Jacobs 2002:361 thinking in a fog</td>
</tr>
<tr>
<td>Osborn 2006:353 living with body separate from self</td>
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<tr>
<td>Snelgrove 2009:354 crucial nature of pain – body/pain as a threat</td>
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<tr>
<td>Afril 2007:372 acceptance typologies – rejecting the body</td>
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</tbody>
</table>

Team memos and second-order constructs for ‘negotiating an unrelenting body’

Team memos describing category:
Unrelenting pain a constant struggle; pain constant, overwhelming, all pervading; drains my resources
Described overwhelming sense of loss/sorrow and emotional impact of this (depression, anxiety, despair, hopeless, helpless, powerless)

Second-order constructs supporting category

<table>
<thead>
<tr>
<th>MSK</th>
<th>Fibromyalgia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hunhammar 2009:353 striving to master variable pain – disruptions to daily life</td>
<td>Lachapelle 2008:355 barriers to acceptance – unrelenting pain and fatigue</td>
</tr>
<tr>
<td>Snelgrove 2009:354 crucial nature of pain – physicality</td>
<td>Gustafsson 2004:327 shame to respect – negative factors</td>
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<td></td>
<td>Sturge-Jacobs 2002:361 pain constant presence</td>
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<td></td>
<td>Lemp 2009:361 change in health identity – physical problems</td>
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<td></td>
<td>Paulson 2002:346 body as obstruction – reluctant body</td>
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<thead>
<tr>
<th>Emotional impact</th>
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<tr>
<td>Arnold 2008:373 emotional impact</td>
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<tr>
<td>Kelley 1997:346 loss</td>
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<tr>
<td>Lemp 2009:361 change in health identity – mental distress</td>
<td></td>
</tr>
<tr>
<td>Gustafsson 2004:327 shame to respect – negative factors</td>
<td></td>
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<tr>
<td>Hallberg 2000:259 preoccupied with pain – pain communication</td>
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<tr>
<td>Gullaksen 2004:277 stage 2 – sorrow and loss</td>
<td></td>
</tr>
</tbody>
</table>
### Team memos and second-order constructs for 'new me not the real me'

**Team memos describing category:**
- Describes loss of self-identity and impact on self-esteem, self-image and confidence
- Struggle for old self to win; no longer whole self [old self is the real one]
- Grief/loss over old self; grief important to moving on? Internal conflict; good vs. bad; before vs. now
- Pain has altered the essence of me; good/bad me; old/new me; past to present self
- Paradox – need to prevent erosion of self but am irreparably altered
- Paradox – fight but also learn to live with (gracefully) = powerful rhetoric; strong language – will not beat me
- Paradox – if I am not altered am I ill (important in adversarial system where have to keep showing how I am altered)

**Second-order constructs supporting category**

<table>
<thead>
<tr>
<th>MSK</th>
<th>Fibromyalgia</th>
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<tbody>
<tr>
<td>Satink 2004:354 aiming to be normal</td>
<td>Gullacksen 2004:377 stage 3 – a new course of life</td>
</tr>
<tr>
<td>Crowe 2010:327 alteration to self</td>
<td>Lachapelle 2008:335 barriers to acceptance – fight to be normal</td>
</tr>
<tr>
<td>Osborn 1999:342 comparing this self with other selves</td>
<td>Soderberg 1999:359 loss of freedom – changed everyday life</td>
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<tr>
<td>Smith 2007:66 continuum or trajectory</td>
<td>Raymond 2000:349 establishing coping strategies</td>
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<tr>
<td>Smith 2007:66 directing it at others</td>
<td>Lofgren 2006:337 grieving</td>
</tr>
<tr>
<td>Lundberg 2007:338 failed adaptation</td>
<td>Liedberg 2002:337 values and norms – meaning of work</td>
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<tr>
<td>Skuladottir 2011:377 quest for normalcy</td>
<td>Paulson 2002:330 being a different man – not being the same</td>
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<tr>
<td>Toye 2010:363 I am still me but not me</td>
<td>Lachapelle 2008:335 barriers to acceptance – fight to be normal</td>
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<tr>
<td>Werner 2004:317 I have always been so strong</td>
<td>Lachapelle 2008:335 barriers to acceptance – fight to be normal</td>
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<tr>
<td>Smith 2007:66 negative impact on self</td>
<td>Paulson 2002:330 being a different man – not being the same</td>
</tr>
<tr>
<td>Werner 2003:336 for better or worse – sorrow at loss</td>
<td>Lachapelle 2008:335 barriers to acceptance – fight to be normal</td>
</tr>
</tbody>
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Team memos and second-order constructs for ‘isolated not connected’

Team memos describing category:
Loss of reciprocal roles; negativity/low mood/anger contaminated relationships
I no longer am a nice person – lasting change.
Changing social roles and status; lost social roles
Cut off from work; the ‘normal thing’ to do
Exacerbated by invisibility/lack of belief, ambiguous diagnosis; fluctuating symptoms
A lonely process; exacerbated for need to hide illness or appear normal (living a lie?)

Second-order constructs supporting category

<table>
<thead>
<tr>
<th>MSK</th>
<th>Fibromyalgia</th>
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<tbody>
<tr>
<td>Bair 2009:354 facilitators – support of others</td>
<td>Lachapelle 2008:355 barriers to acceptance – support and belief of others</td>
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<tr>
<td>Campbell 2008:356 dependence and social withdrawal</td>
<td>de Vries 2011:354 consequences of staying at work</td>
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<tr>
<td>Smith 2007:356 directing it at others</td>
<td>Arnold 2008:373 emotional impact</td>
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<tr>
<td>De Souza 2011:375 children and parents</td>
<td>Hallberg 1998:328 maintaining forces – family support</td>
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<tr>
<td>Campbell 2008:356 dependence and social withdrawal</td>
<td>Lempp 2009:381 change in health identity – impact on social life</td>
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<tr>
<td>Sanders 2002:355 disrupted biographies</td>
<td>Gullaksen 2004:377 stage 2 – leaving the sick role</td>
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<tr>
<td>Skandalott 2011:355 quest for normalcy – need to participate</td>
<td>Raheim 2006:384 theoretical interpretation – lived relations</td>
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<tr>
<td>Werner 2003:356 why can’t she just do it? – family</td>
<td>Cunningham 2006:375 living with the symptoms of fibromyalgia</td>
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<tr>
<td>Johansson 1997:355 family considerations</td>
<td>Paulson 2002:346 being a different man – not being the same</td>
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<tr>
<td>Campbell 2007:355 importance of self</td>
<td>Paulson 2002:346 being a different man – not understood</td>
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<tr>
<td>for practical support</td>
<td>Raheim 2006:348 typologies – powerlessness</td>
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<tr>
<td>someone who cares</td>
<td>Gullaksen 2004:377 stage 1 – self-deception</td>
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<tr>
<td>to be connected and care for someone</td>
<td>Liedberg 2002:382 other commitments – social relations</td>
</tr>
<tr>
<td>Osborn 1999:342 not being believed</td>
<td>Lofgren 2006:373 social support</td>
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<tr>
<td>Holloway 2007:373 stigma by significant others</td>
<td>Soderberg 2001:360 transitions – social life</td>
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<td>de Vries 2011:354 motivators for staying at work – work as value</td>
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</table>
Team memos and second-order constructs for ‘unpredictable now’

Team memos describing category:
Live with uncertainty of fluctuating symptoms; living life on a knife edge; constant need to take precautions
Good and bad days cause uncertainty about future; body is unpredictable, can’t rely on it; inability to rely on the body damages self-image
Difficult to plan ahead or be spontaneous; leads to isolation; have to live by the moment
Pain shrinks lived time and space; hold onto safe routines and don’t think of future
Don’t plan ahead; never ending here and now; routines gone; structure of life broken down; living here and now
New rhythm of daily life – space of action increased; rhythm of life has changed and is related to state of the body; routines and rituals now required

Second-order constructs supporting category

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<tr>
<td>Osborn 1999:342 comparing this self with other selves</td>
<td>Gullaksen 2004:377 stage 3 – maintenance (a new attitude)</td>
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<tr>
<td>Coole 2010:379 difficulty coping with flare-ups</td>
<td>Mengshoel 2004:341, a new interpretation</td>
</tr>
<tr>
<td>Crowe 2010:377 need for vigilance</td>
<td>Paulson 2001:383 calm and difficult phases</td>
</tr>
<tr>
<td>Patel 2007:345 uncertainty – pain and health</td>
<td>Lempp 2009:381 change in health identity</td>
</tr>
<tr>
<td>Hunhamaar 2009:331 striving to master variable pain</td>
<td>Sturge-Jacobs 2002:361 dealing with flare-ups</td>
</tr>
<tr>
<td>Crowe 2010:377 unpredictability</td>
<td>Raheim 2006:348 theoretical interpretation – lived time and space</td>
</tr>
</tbody>
</table>

Team memos and second-order constructs for ‘unpredictable future’

Team memos describing category:
On balance a negative outlook for future; future unpredictable
Unable to plan for future (dys-appearance of future, i.e. foregrounding – bleak to dwell on what is to come; life’s great paradox)
Turning towards future can cause anxiety; can have hope for cure at same time as not being driven by finding one
Clinical uncertainty allows a degree of hope?379
Hope for improvement in pain and symptoms not incompatible with acceptance of current state

Second-order constructs supporting category

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<thead>
<tr>
<th>MSK</th>
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<tbody>
<tr>
<td>Coole 2010:379 concerns about future at work</td>
<td>Paulson 2002:347 feeling hopeful</td>
</tr>
<tr>
<td>Skuladottir 2011:355 quest for normalcy</td>
<td>Lachapelle 2008:315 meaning of acceptance</td>
</tr>
<tr>
<td>Toye 2012:376 being fobbed off – nothing else we can do</td>
<td>Soderberg 2001:380 transitions – daily life</td>
</tr>
<tr>
<td>Afrell 2007:372 acceptance typologies – rejecting the body</td>
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</tbody>
</table>
Team memos and second-order constructs for ‘alienated from the dominant medical model’

Team memos describing category:
Need to find a cause; medical model doesn’t fit – failed the test; need a diagnosis – don’t want one/don’t have one. It is in not in my body – so it is in my mind. I need to do something – there is nothing I can do because I haven’t ‘got anything’ wrong with me.

I have failed the medical test; diagnosis and medical test give credibility; seek fix/cure
Medical model has implication that something should be done; need medical cause to be credible
Can’t see pain so not believed; aligned/alienated – fail or pass medical test – powerful language
Paradox – need a diagnosis although don’t want to be ill
Paradox – common sense shows me that psychosocial has an impact on how I feel

Fibromyalgia
Fibromyalgia experienced as ‘unreal’; uncertainty replaced by a different uncertainty
Diagnosis uncertain and often not believed. Some saw fibromyalgia as a limited diagnosis (pain in muscles)
For some a key turning point (a springboard to knowledge)
Problem that diagnosis of fibromyalgia gains master status; delays in diagnosis damaging as required for credibility

Second-order constructs supporting category

<table>
<thead>
<tr>
<th>MSK – alienated from medical model</th>
<th>Fibromyalgia – ambivalent medical diagnosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walker 1999:367 being in the system – all in the mind</td>
<td>Undeland 2007:366 relief of name but diagnosis becomes a burden</td>
</tr>
<tr>
<td>Allegretti 2010:313 biomedical vs. biopsychosocial</td>
<td>Mengshoel 2004:341 ambivalence about diagnosis</td>
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<tr>
<td>Snelgrove 2009:328 maintaining integrity – cause of pain</td>
<td>Lachapelle 2008:335 barriers to acceptance – support and belief of others</td>
</tr>
<tr>
<td>Walker 1999:367 being in the system – feeling insignificant</td>
<td>Madden 2006:335 seeking answers – biomedical ambiguity</td>
</tr>
<tr>
<td>Campbell 2007:315 getting something done</td>
<td>Gullaksen 2004:377 stage 1 – confirmation by health-care professional</td>
</tr>
<tr>
<td>Allegretti 2010:313 importance of diagnosis</td>
<td>Sallinen 2010:351 confusion</td>
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<tr>
<td>Skuladottir 2011:355 quest to learn to live</td>
<td>Soderberg 1999:350 threat to integrity – credibility and invisibility</td>
</tr>
<tr>
<td>with pain – need diagnosis</td>
<td>Gullaksen 2004:377 stage 2 – defining problems</td>
</tr>
<tr>
<td>Toye 2012:354 being fobbed off – I didn’t get a thorough examination</td>
<td>Undeland 2007:366 diagnostic uncertainty</td>
</tr>
<tr>
<td>Snelgrove 2009:328 maintaining integrity – not being believed</td>
<td>Madden 2006:335 discovering a disease – fibromyalgia empty diagnosis</td>
</tr>
<tr>
<td>Walker 1999:367 being in the system – passing the medical test</td>
<td>Sallinen 2011:352 experiential knowledge</td>
</tr>
<tr>
<td>Slade 2009:357 stigma – sickness vs. wellness model</td>
<td>Paulson 2002:347 feeling hopeful</td>
</tr>
<tr>
<td>Dickson 2003:325 reconstructing meaning of pain – suffering with pain</td>
<td>Kelley 1997:360 feeling understood</td>
</tr>
<tr>
<td>Campbell 2007:315 unmet expectations</td>
<td>Madden 2006:335 discovering a disease – identifying an organic being</td>
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<td></td>
<td>Madden 2006:335 seeking answers – invisibility of fibromyalgia</td>
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<td></td>
<td>Madden 2006:335 seeking answers – patterns of acceptance</td>
</tr>
<tr>
<td></td>
<td>Hallberg 1998:328 maintaining forces – professional care</td>
</tr>
<tr>
<td></td>
<td>Lachapelle 2008:335 process of acceptance – realising need for help, getting diagnosis, realising no cure, it could be worse</td>
</tr>
<tr>
<td></td>
<td>Madden 2006:335 seeking answers – resolving uncertainty</td>
</tr>
<tr>
<td></td>
<td>Soderberg 1999:379 struggle for understanding – seeking explanations</td>
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<td></td>
<td>Hellström 1999:378 search for confirmations as ill</td>
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<td></td>
<td>Raymond 2000:349 seeking a diagnosis</td>
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</tbody>
</table>
Team memos and second-order constructs for ‘nobody believes me’

Team memos describing category
Perceived as malinger or ‘all in my head’; social stigma – seen as an excuse for non-participation and inadequacy
Being fobbed off interpreted as not being believed. You look so well! Can’t be ill
Variability of conditions threatens credibility; trying to meet expectations of social role [and being successful!] threatens credibility, exacerbated by media reports of fraud, self-doubt

Second-order constructs supporting category

MSK Fibromyalgia

Family and friends don’t believe me

Slade 2009:357 stigma – community
Werner 2003:356 why can’t she just do it? – friends
Werner 2003:356 I don’t give up unless I have to
Toye 2010:363 loss of credibility
Snelgrove 2009:356 maintaining integrity – not being believed
Osborn 1999:352 not being believed
Johansson 1999:353 self-perception
Holloway 2007:379 stigma by significant others
Holloway 2007:379 stigma in everyday life

Lachapelle 2008:355 barriers to acceptance – support and belief of others
Soderberg 1999:358 threat to integrity – credibility and invisibility
Kelley 1997:358 feeling understood
Soderberg 1999:359 threat to integrity – lack of knowledge and negative attitude
Sturge-Jacobs 2002:361 pain constant presence
Hellström 1999:379 search for a cause
Raymond 2000:389 seeking a diagnosis

Health-care professionals don’t believe me

Walker 1999:359 being in the system
Johansson 1996:359 experience of distrust
Walker 1999:359 being in the system – feeling insignificant
Werner 2003:370 I don’t give up unless I have to
Toye 2010:363 loss of credibility
Toye 2012:364 being fobbed off – I didn’t get a thorough examination
Holloway 2007:379 stigmatisation in health-care systems
Campbell 2007:319 unmet expectations

Gullacksen 2004:377 stage 1 – confirmation by health-care professional
Sallinen 2010:351 confusion
Paulson 2002:347 feeling neglected
Sturge-Jacobs 2002:361 power of diagnosis
Hallberg 1998:329 maintaining forces – professional care
Raymond 2000:349 seeking a diagnosis
Gustafsson 2004:327 shame to respect
Holloway 2007:379 stigmatisation in health-care systems

Team memos and second-order constructs for ‘striving for an alternative explanation’

Team memos describing category
Realise link between pain and life events; seek cause in everyday life; affirmed pain in body not mind
Looked for specific events as trigger; looked for meaning and cause in life
Used medicalised explanations (pregnancy, penicillin)
Need to make sense of illness in own life

Second-order constructs supporting category

MSK Fibromyalgia

Toye 2012:365 restoring hope – constructing an acceptable explanatory model
Snelgrove 2009:356 maintaining integrity – cause of pain
Toye 2010:363 could I be imagining this
Johansson 1999:352 explanations
Coole 2010:319 justifying back pain
Harding 2005:329 making sense of pain
Dickson 2003:325 deconstructing meaning of pain – managing and tolerating
Sanders 2002:353 normal aspect of biography
Osborn 1999:342 searching for an explanation
Dickson 2003:325 reconstructing meaning of pain – stumbling along with pain

Mengshoel 2004:341 a new interpretation
Raymond 2000:389 experiencing symptoms
Hellström 1999:379 onset
Soderberg 1999:359 struggle for understanding – seeking explanations
Hellström 1999:355 search for a cause
Mengshoel 2004:341 uncertainty of treatment
Madden 2006:339 seeking answers – why me?
Team memos and second-order constructs for ‘ambivalent relationship with health care’

Team memos describing category:
Don’t trust system; conspiracy – lack of faith
Conflicts, expectations; lack of fit with system
Conflicts with treatment; tension faith/no faith. In them or their medicines; loss of faith but still have hope
If I don’t get better I am blamed, getting nowhere; trapped in the medical system
Like a shuttlecock; at the mercy of it. Failing me but I am compelled to be in it (gives hope)
Consumes my life but is failing me; but continue to value it
Paradox; faith in it/no faith in it; expectation to be active/self-manage but trapped
Reticent but compelled to engage; continuous battle
Battle; conflict; struggle; doctor knows best but GP not a specialist
You know best but you don’t know best; who does know best; perhaps no cure at all

Fibromyalgia
GP dismissive of fibromyalgia label or reluctant to give it; not believed; dismissed as psychological
Used as a guinea pig – feel doctor doesn’t know what it is or what to do

Second-order constructs supporting category

<table>
<thead>
<tr>
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<tbody>
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<td>Undeland 2007:366 diagnostic uncertainty</td>
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<tr>
<td>Campbell 2007:315 back to square one</td>
<td>Paulson 2002:347 guinea pig</td>
</tr>
<tr>
<td>Teh 2009:362 participation in pain treatment – don’t want to be harmed</td>
<td>Sturge-Jacobs 2002:361 power of diagnosis</td>
</tr>
<tr>
<td>Werner 2003:345 why can’t she just do it? – health-care professionals</td>
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<tr>
<td>Patel 2007:345 health-care barriers</td>
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<tr>
<td>Teh 2009:362 participation in pain treatment – involved in decisions</td>
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<tr>
<td>Walker 1999:367 being in the system – losing faith</td>
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<tr>
<td>Johansson 1996:332 strategies to gain self-respect – mystifying</td>
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<tr>
<td>Toye 2012:364 you are just a GP – not leaving until I see a specialist</td>
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<td>Toye 2012:364 being fobbed off – nothing else we can do</td>
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<td>Cooper 2008:322 organisation</td>
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<td>Walker 1999:367 being in the system – passing the medical test</td>
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<td>Johansson 1996:332 strategies to get doctor’s attention</td>
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<td>Patel 2007:345 psychological barriers</td>
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<td>Cook 2000:317 relationship with health-care professional</td>
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<tr>
<td>Snellgrove 2009:356 managing the pain – relationship with health-care professionals</td>
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<tr>
<td>Liddle 2007:320 treatment received</td>
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<tr>
<td>Johansson 1996:332 strategies to get doctor’s attention – somatising</td>
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<tr>
<td>Walker 1999:367 being in the system – waiting</td>
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<tr>
<td>Toye 2012:364 who is the back expert</td>
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<tr>
<td>Toye 2012:364 you are just a GP – you are not a back expert</td>
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<td>Werner 2003:370 you have to tread rather softly</td>
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<td>Walker 1999:367 being in the system – your life is not your own</td>
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### Team memos and second-order constructs for ‘medication’

**Team memos describing category:**
Medication demonstrates ambivalence to health-care system

**Second-order constructs supporting category**
<table>
<thead>
<tr>
<th>MSK</th>
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<tbody>
<tr>
<td>Allegretti 2010:313 goal to reduce pain</td>
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<tr>
<td>Bair 2009:314 barriers to self-management – GP just describes painkillers</td>
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<tr>
<td>Toye 2012:364 being fobbed off – just take the tablets</td>
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<tr>
<td>Snelgrove 2009:358 managing the pain – medication dependency</td>
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<tr>
<td>Skuladottir 2011:325 quest to learn to live with pain – need for effective treatment</td>
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<tr>
<td>Snelgrove 2009:358 managing the pain – relationship with health-care professionals</td>
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<tr>
<td>Coole 2010:319 reluctance to use meds</td>
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<td>Liddle 2007:336 treatment received</td>
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<tr>
<td>Campbell 2008:316 striving for self-management</td>
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<tr>
<td>Crove 2010:326 taking medication</td>
<td></td>
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<tr>
<td>Teh 2009:326 participation in pain treatment – working outside health-care professional relationship</td>
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<td>de Vries 2011:324 success factors (work) – coping with pain</td>
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<td>Lempp 2009:381 quality of care – ethnicity</td>
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<td>Paulson 2002:347 guinea pig</td>
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<tr>
<td>Lempp 2009:381 quality of care – interventions</td>
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<tr>
<td>Schaefer 2005:384 camouflaging with medications</td>
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### Team memos and second-order constructs for ‘value me as a person, don’t just treat my body’

**Team memos describing category:**
Understand the impact that pain has on me and my life: believe that it is not my fault
Humankind of believing valued as a person had an impact on experience
Doctor needs to bear witness to pain; experience of not being believed, listened to, given time, taken seriously
Let me know what you are doing

**Second-order constructs supporting category**
<table>
<thead>
<tr>
<th>MSK</th>
<th>Fibromyalgia</th>
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<tbody>
<tr>
<td>Osborn 2008:346 containing fear through social connection</td>
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<td>Toye 2012:364 being fobbed off</td>
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<td>Cooper 2008:326 communication</td>
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<tr>
<td>Johansson 1996:326 experience of distrust</td>
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<td>Johansson 1996:326 expectations of a ‘creditable’ consultation</td>
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<tr>
<td>Slade 2009:356 listen to me – explain it so I can understand</td>
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<tr>
<td>Walker 1999:367 being in the system – feeling insignificant</td>
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<td>Steen 2001:384 group leaders</td>
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<tr>
<td>Patel 2007:345 health-care barriers</td>
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<tr>
<td>Toye 2012:364 being fobbed off – I see buckets of people like you</td>
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<tr>
<td>Teh 2009:326 importance of relationship with health-care professional</td>
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<tr>
<td>Toye 2012:364 being fobbed off – I just want to be heard</td>
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<tr>
<td>Walker 1999:367 being in the system – losing faith</td>
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<tr>
<td>Skuladottir 2011:325 quest for support caring and connection – need for health-care professional</td>
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<tr>
<td>Skuladottir 2011:325 quest to learn to live with pain – need for help advice and information</td>
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<tr>
<td>Toye 2012:364 being fobbed off – I didn’t get a thorough examination</td>
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<td>Slade 2009:357 stigma – health-care professionals</td>
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<td>Harding 2005:326 unmet expectations</td>
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<tr>
<td>Slade 2009:356 engagement with health care – ask me</td>
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<tr>
<td>Johansson 1996:326 strategies to get doctor’s attention – claiming under cover</td>
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<td>Cooper 2008:326 decision-making</td>
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<td>Cooper 2008:326 individual care</td>
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<tr>
<td>Slade 2009:356 engagement with health care – understand me</td>
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<td>Slade 2009:356 engagement with health care – partnership</td>
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<td>Slade 2009:357 tell me</td>
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<tr>
<td>Gullacksen 2004:377 stage 1 – confirmation by health-care professionals</td>
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<tr>
<td>Paulson 2002:347 feeling neglected</td>
<td></td>
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<tr>
<td>Kelley 1997:380 feeling understood</td>
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<tr>
<td>Sturge-Jacobs 2002:381 power of diagnosis</td>
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<tr>
<td>de Vries 2011:324 success factors (work) – use of health-care services</td>
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</tbody>
</table>
Team memos and second-order constructs for ‘struggling to find the right balance’

Team memos describing category:
Invisibility damages credibility; making invisible visible is hard work; difficulty being accepted. Worked hard to pass the test by not giving up and being assertive. Need to enact pain in the right way; can’t look too ill or too well or people won’t believe you. There is a right balance. Some find it easier to just hide it (maybe linked to rhetoric of being brave, stiff upper lip, not whinging, etc.). Some find it easier to just hide it (maybe linked to rhetoric of being brave, stiff upper lip, not whinging, etc.). Cautious about disclosure (shame, being believed, etc.)

Link to sick role – am I sick or not (can apply to all chronic illness); social recognition/belief; link to shame stigma/legitimacy; Managing external projection of pain; health care in law court. Language of witnesses/advocate. Start in dock; burden of proof; not equal in eyes of society (or health care). Guilty unless proven innocent. Adversarial of pain; moral narratives a defence of self;

Credibility; not my fault; diagnosis, X-ray, social recognition, benefits, work.Captures inner struggle to maintain who they were and at the same time hide their symptoms

Putting on a brave face. Trying to look normal and not be a ‘whiner’ (men/stoical); conceal emotions and appear cheerful

Effort to look normal – I am still what I was. Resist sick role and keep it hidden. Exacerbated by need to balance need for support/not; need to be ill/not (Canguilhem’s discussion on normality linked)

Second-order constructs supporting category

MSK

Skuladottir 2011:355 quest for normalcy – avoid sick role and maintain dignity
Campbell 2008:316 dependence and social withdrawal
Werner 2003:370 I feel I should look groggy
Coole 2010:355 justifying back pain
Toye 2010:346 normal compared with others
Smith 2007:355 public arena makes it worse
Johansson 1998:346 self-perception
Harding 2005:320 spoiled identity
Hunhammar 2009:331 striving to master variable pain – strategies for pain control
Dickson 2003:325 reconstructing meaning of pain – striving to reduce pain
Smith 2007:346 the sting in the tail
Osborn 1999:345 withdrawing from others

Fibromyalgia

Lachapelle 2008:345 barriers to acceptance – fight to be normal
Lempp 2009:345 change in health identity – impact on social life
Gullakken 2004:347 stage 2 – leaving the sick role
Paulson 2002:346 striving to endure – living as normally as possible
Sturge-Jacobs 2002:345 longing for a normal life
Paulson 2002:345 not being a whiner
Hallberg 1998:342 psychosocial vulnerability – overcompensatory perseverance
Hallberg 2000:329 preoccupied with pain – pain communication
Sallinen 2011:329 permission to talk
Lachapelle 2008:329 barriers to acceptance – fight to be normal
Mengshoel 2004:341 resisting a sick role
Schaefer 2005:345 secrecy makes it easier
Raymond 2000:340 seeking a diagnosis
Gullakken 2004:347 stage 1 – self-deception
Gullakken 2004:347 stage 1 – struggling to restore life
Mengshoel 2004:341 uncertainty of treatment
Mengshoel 2004:341 unwilling to celebrate illness
**Team memos and second-order constructs for ‘struggling to show that I am a good and valuable person’**

**Team memos describing category:**
Not so evident in fibromyalgia
Moral narratives used to support credibility; not my fault. I am not a person to be blamed for this. I have done nothing
I am no longer good me but still use moral narratives to support self; narratives of previous life emphasis good me
Need positive self-view; narratives of previous virtuous life emphasis I am not to blame
Need to hold onto an acceptable and positive view of self
Constant comparison to others to negotiate reality of their pain
Tensions in social comparison (neither upward comparison or downward comparison satisfactory)

**Second-order constructs supporting category**

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<thead>
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<tbody>
<tr>
<td>Snelgrove 2009:358 maintaining integrity – cause of pain</td>
<td>de Vries 2011:324 success factors (work) – personal characteristics</td>
</tr>
<tr>
<td>Toye 2010:363 I am not like the others</td>
<td>Sallinen 2011:352 self-evaluation through comparison</td>
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<tr>
<td>Werner 2004:377 I have always been so strong</td>
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<tr>
<td>Johansson 1996:332 strategies to get self-respect – martyrising</td>
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<tr>
<td>Slade 2009:357 stigma – relative positioning</td>
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<tr>
<td>Werner 2004:377 some people pour out their troubles</td>
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</tbody>
</table>

**Team memos and second-order constructs for ‘struggle to affirm myself as a good worker’**

**Team memos describing category:**
Feel treated like a number; don’t want to be seen as a ‘bad worker’; work has effect on identity; ‘if you don’t have a job you are nobody’; feeling that work adds value to self; feel respected and valued

**Second-order constructs supporting category**

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<tr>
<td>Patel 2007:345 perceptions at work – fear of letting employer down</td>
<td>Liedberg 2002:382 values and norms – fulfilment in work</td>
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<tr>
<td>Johansson 1997:333 to be somebody</td>
<td>Liedberg 2002:382 values and norms – organised time structure</td>
</tr>
<tr>
<td>Patel 2007:345 perceptions at work – employers’ limited understanding</td>
<td>Arnold 2008:373 function and quality of life – work</td>
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<td></td>
<td>de Vries 2011:324 motivators for staying at work – work as responsibility</td>
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<td></td>
<td>de Vries 2011:324 motivators for staying at work – work as therapy</td>
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<td>de Vries 2011:324 motivators for staying at work – work as value</td>
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<td>Arnold 2008:373 function and quality of life</td>
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</table>
Team memos and second-order constructs for ‘hostility at work isolating’

Team memos describing category:
Changing and lost relationships of work colleagues; became isolated at work; seen as work-shy; sense of loss at work status

Second-order constructs supporting category

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<tr>
<td>Johansson 1997:333 getting out to be stimulated</td>
<td>Liedberg 2002:382 structural social factors – commuting</td>
</tr>
<tr>
<td>Coole 2010:397 employers – help depends on managers</td>
<td>Lemppp 2009:381 change in health identity – impact on social life</td>
</tr>
<tr>
<td>Holloway 2007:372 stigma at work</td>
<td>Liedberg 2002:382 values and norms – meaning of work</td>
</tr>
<tr>
<td>Slade 2009:357 stigma – workplace</td>
<td>Liedberg 2002:382 working conditions – psychosocial environment</td>
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<td></td>
<td>Mengshoel 2004:341 resisting a sick role</td>
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<td>Liedberg 2002:382 other commitments – social relations</td>
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<td>Soderberg 2001:360 transitions – working life</td>
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<td>de Vries 2011:324 motivators for staying at work – work as responsibility</td>
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</tbody>
</table>

Team memos and second-order constructs for ‘unpredictability of symptoms and the need for flexible work’

Team memos describing category:
Unpredictability of symptoms and fear of progression; faced fear of not working
Frightened that no-one would employ them; need to balance other commitments at home
Limit to reliance on colleagues. Exacerbated by financial climate; could continue if there was some flexibility in working arrangements

Second-order constructs supporting category

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<tr>
<td>Coole 2010:370 concerns about future at work</td>
<td>de Vries 2011:324 success factors (work) – adjustment latitude</td>
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<tr>
<td>Coole 2010:370 difficulty coping with flare-ups</td>
<td>Sallinen 2010:351 being in-between</td>
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<tr>
<td>Coole 2010:370 patient control</td>
<td>Sallinen 2010:351 being over the edge</td>
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<tr>
<td>Johansson 1997:333 getting out to be stimulated</td>
<td>de Vries 2011:324 consequences of staying at work</td>
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<tr>
<td>Coole 2010:370 employers – help depends on managers</td>
<td>Liedberg 2002:382 structural social factors – finances</td>
</tr>
<tr>
<td>Patel 2007:345 uncertainty – pain and health</td>
<td>Liedberg 2002:382 working conditions – physical work</td>
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<td>Soderberg 2001:360 transitions – working life</td>
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<td>Lofgren 2006:337 constant struggle – walking a tightrope</td>
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<td>Liedberg 2002:382 structural social factors – work restructuring</td>
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</table>

Team memos and second-order constructs for ‘battling the system to stay in work’

Team memos describing category:
Negotiating benefits; no incentive to get off benefits; struggling to get benefits
Deservingness out of your hands. Participants struggle to be seen as ‘genuine’ benefit applicants
Disadvantages of getting better financially
Damned if you do or don’t; if you don’t get benefits you lose credibility; if you do get benefits there are other losses
Sense of shame of claiming benefits

Second-order constructs supporting category

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<td>Walker 1999:367 being in the system – your life is not your own</td>
<td>Patel 2007:345 uncertainty – working capacity</td>
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</table>
Team memos and second-order constructs for ‘health-care system does not facilitate return to work’

Team memos describing category:
No communication between health-care service and employer to facilitate return to work or access to benefits; advice to ‘be careful’ does not help graded return to work; being trapped in health-care system delays return to work; exacerbated by loss of legitimacy.

Second-order constructs supporting category

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<tr>
<td>Coole 2010:320 occupational health – advice overcautious</td>
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<tr>
<td>Coole 2010:320 employers – overcautious support</td>
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<tr>
<td>Coole 2010:318 no employment help from GP – clinicians increase concerns</td>
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<tr>
<td>Coole 2010:320 occupational health – dependent on causation</td>
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<tr>
<td>Coole 2010:318 no employment help from GP – doubt what GP can offer</td>
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<tr>
<td>Coole 2010:318 no employment help from GP – GPs write sick notes</td>
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<tr>
<td>Patel 2007:345 health-care barriers</td>
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<td>Coole 2010:320 occupational health – modifications left to manager</td>
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<tr>
<td>Coole 2010:318 no employment help from GP – lack of dialogue between GPs, health-care professionals and employers</td>
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<tr>
<td>Coole 2010:318 no employment help from GP – no effective advice from GPs</td>
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<td>Coole 2010:320 occupational health – service for employees</td>
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Team memos and second-order constructs for ‘listening to and integrating my painful body’

Team memos describing category:
Have become more present in the body (either a limitation or benefit); no longer at mercy of body but listen to it and co-operate, respect limits; Respond to fluctuating needs. ‘Sensitive co-operation’, growing acceptance of, and permission for, limitations imposed by the body.
But – constant awareness of body can distract from being present in occupation
Ambiguity (Afrell 2007:372), do I listen to it or shut it off? Fight – give up hope – accept and move on?
Listen to body/analyse life; working with body/knowing body; dialogue with body. Analyse life events and listen to body; become expert in body awareness
Awareness that changes have to be made; live at own speed to maintain participation’. Slow down, balance resources, set priorities, pace, rest, balance demands; balance external demands and own personal resources.

Second-order constructs supporting category

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<tr>
<td>Satink 2004:354 aiming to collaborate with pain</td>
<td>(a new attitude)</td>
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<tr>
<td>Dragesund 2008:326 associations about the body</td>
<td>Mengshoel 2004:341 a new interpretation</td>
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<tr>
<td>Dragesund 2008:326 aware of body</td>
<td>Mannerkorpi 1999:340 adapting</td>
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<tr>
<td>Werner 2003:389 for better or worse – awareness of needs</td>
<td>Gustafsson 2004:327 setting limits – adjusting self-demands</td>
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</table>
Team memos and second-order constructs for ‘redefining normal and less focus on loss’

Team memos describing category:
Give up aspiration of being ‘old self’ = challenging; idea of repairing existence
Sense that realisation of loss and grief is important in process = redefine goals; have to do things ‘not normally’; create new patterns and routines
Acceptance was not an all or nothing process; repeated moments of reflection
You made decisions on a daily basis and setbacks occurred on bad days
Easier to accept pain on a cognitive than an emotional level
Less focus on loss and energy diverted to positive activities rather than complaining
Making the best of things, realising that things ‘could be worse’
Letting go of pre-pain self-expectations and shifting their focus to what they could accomplish now, despite the pain
Conscious of having the power to choose a path of giving in to negative emotions
Can lead to pleasure at coping in spite of pain

Second-order constructs supporting category

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<tr>
<td>Lundberg 2007:118 finding the way out</td>
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<td>Skuladottir 2011:355 quest for normalcy</td>
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<td>Werner 2003:360 applying the competence – focusing on resources (not pain)</td>
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<td>Aegler 2009:114 performing as an ongoing attraction</td>
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Team memos and second-order constructs for ‘being part of a community of others with pain’

**Team memos describing category:**
Free to talk and unburden self without judgement; able to express self with others
Positive impact on self-esteem; sense of community. Recognition, respect, feel understood; feeling of reciprocity met
Group helpful for gathering info; helped them to see pain as something ‘real’ that was experienced on a daily basis by others who could provide practical knowledge; focus on coping strategies; recognition, respect self-esteem. Removed sense of isolation. But some ambiguity (I am not quite like them)

**Second-order constructs supporting category**

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<td>Steen 2001:385 accepting self and others</td>
<td>Gustaffson 2004:327 shame to respect</td>
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<td>Steen 2001:385 gender</td>
<td>Sallinen 2011:312 permission to talk</td>
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<tr>
<td>Cooper 2008:327 information sharing</td>
<td>Sallinen 2011:370 experiential knowledge</td>
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<tr>
<td>Werner 2003:359 for better or worse — recognition</td>
<td>Hellström 1999:378 search for confirmations as ill</td>
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<td>give strength</td>
<td>Gustaffson 2004:377 changing self-image — self-confidence</td>
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<tr>
<td>Werner 2003:359 for better or worse — sorrow at loss</td>
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<td>Dickson 2003:325 reconstructing meaning of pain — struggling to remove pain</td>
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<td>Dickson 2003:325 reconstructing meaning of pain — stumbling along with pain</td>
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**But . . . I am not like others**

| Toye 2010:363 I am not like the others | Raymond 2000:349 establishing coping strategies |
| | Lachapelle 2008:335 facilitators to acceptance — perceived social support |
| | Sallinen 2011:352 reciprocity |
| | Mengshoel 2004:341 unwilling to celebrate illness |

**Team memos and second-order constructs for ‘telling others about my pain’**

**Team memos describing category:**
Come out and tell others; don’t keep secret; don’t need approval of others

**Second-order constructs supporting category**

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<td>Werner 2003:359 applying the competence – encountering others</td>
<td>Gustaffson 2004:327 setting limits – adjust workload</td>
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<tr>
<td>Werner 2003:359 applying the competence – focusing on resources (not pain)</td>
<td>Raheim 2006:348 typologies – ambivalence</td>
</tr>
<tr>
<td>Skuladottir 2011:357 quest to learn to live with pain – need to take care of self and find a new pace</td>
<td>Kelley 1997:380 support and empowerment</td>
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<td>Gustaffson 2004:327 setting limits – telling others</td>
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Team memos and second-order constructs for ‘realising there is no cure for my pain’

**Team memos describing category:**
Acknowledging pain here to stay critical to adjustment – have to get on with it
Cannot maintain ‘normal’ old self; stopped waiting for a cure; hope for cure no longer an obstacle to other possibilities
Ironically this made them more hopeful

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<tr>
<td>Harding 2005:330 living with and planning for the future</td>
<td>Sallinen 2010:371 coping with fluctuating symptoms</td>
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<td>Lachapelle 2008:335 process of acceptance – realising need for help, getting diagnosis, realising no cure, it could be worse</td>
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<td>Gullacksen 2004:377 stage 2 – sorrow and loss</td>
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<td>Gullacksen 2004:377 stage 2 – working through</td>
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Team memos and second-order constructs for ‘becoming expert’

**Team memos describing category:**
This is about becoming more of an expert and taking control of situation. System not working so need to become self-reliant in order to move forward
Becoming flexible. Learning to think differently and change
From ignorance to knowledge. Diagnosis a turning point to becoming more knowledgeable about fibromyalgia
Helped self-esteem and respect

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<td>Steen 2001:386 experimenting</td>
<td>Gustaffson 2004:327 developing body awareness</td>
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<tr>
<td>Teh 2009:382 participation in pain treatment – involved in decisions</td>
<td>Sallinen 2011:352 experiential knowledge</td>
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<tr>
<td></td>
<td>Lachapelle 2008:335 process of acceptance – ongoing process</td>
</tr>
<tr>
<td></td>
<td>Soderberg 1999:359 struggle for understanding – seeking relief and planning life</td>
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</table>
This report presents independent research funded by the National Institute for Health Research (NIHR). The views expressed are those of the author(s) and not necessarily those of the NHS, the NIHR or the Department of Health.