Characteristics of self-management among patients with complex health needs: a thematic analysis review

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ABSTRACT

Objective There is a gap of knowledge among healthcare providers on characteristics of self-management among patients with chronic diseases and complex healthcare needs. Consequently, the objective of this paper was to identify characteristics of self-management among patients with chronic diseases and complex healthcare needs.

Design Thematic analysis review of the literature.

Methods We developed search strategies for the MEDLINE and CINAHL databases, covering the January 2000–October 2018 period. All articles in English or French addressing self-management among an adult clientele (18 years and older) with complex healthcare needs (multimorbidity, vulnerability, complexity and frequent use of health services) were included. Studies that addressed self-management of a single disease or that did not have any notion of complexity or vulnerability were excluded. A mixed thematic analysis, deductive and inductive, was performed by three evaluators as described by Miles et al.

Results Twenty-one articles were included. Patients with complex healthcare needs present specific features related to self-management that can be exacerbated by deprived socioeconomic conditions. These patients must often prioritise care based on one dominant condition. They are at risk for depression, psychological distress and low self-efficacy, as well as for receiving contradictory information from healthcare providers. However, the knowledge and experiences acquired in the past in relation to their condition may help them improve their self-management skills.

Conclusions This review identifies challenges to self-management for patients with complex healthcare needs, which are exacerbated in contexts of socioeconomic insecurity and proposes strategies to help healthcare providers better adapt their self-management support interventions to meet the specific needs of this vulnerable clientele.

INTRODUCTION

A great majority of patients who consult the healthcare system worldwide present with one or more chronic diseases.1 Responsible for 63% of deaths, chronic diseases represent the first cause of mortality in the world.2 Characterised by periods of stability and deteriorations, the health condition of people with chronic diseases requires constant attention by the persons who are affected, as well as by those who surround them, in order to manage symptoms and consequences. People with chronic diseases often have to develop self-management skills.

Self-management has been defined as ‘the practice of activities that individuals initiate and perform on their own behalf in maintaining life, health, and well-being’ and ‘developing the skills needed to devise, implement, evaluate, and revise an individualised plan for lifestyle change’.3 Self-management incorporates an array of skills that a person must possess in order to take charge of his or her health. Lorig and Holman4 developed a theoretical model for self-management involving three self-management tasks: medical management, emotional management and role management. According to this model, self-management requires six self-management, emotional management and role management. According to this model, self-management requires six self-management challenges: medical management, emotional management and role management. According to this model, self-management requires six self-management needs. Consequently, the objective of this paper was to identify characteristics of self-management among patients with chronic diseases and complex healthcare needs.

Strengths and limitations of this study

► The analysis was conducted using a recognised conceptual model of self-management.
► There is a lack of consensus in the literature regarding the definition of patients with complex needs, so we ensured that the selection criteria developed for this study were broad enough to include a range of definitions for complexity.
► A limitation of any review is the potential omission of relevant articles as well as any unpublished material.
patients with complex needs. Providers constantly work with this clientele whether it be in hospitals, emergency services, medical clinics, in homecare and so on. Thus, they play an important role in self-management support. However, the scarcity of knowledge on the specifics of self-management among complex patients can be detrimental to healthcare providers’ capacity to adequately support and accompany such patients in the self-management of their chronic conditions. Consequently, it is important to increase our understanding of the characteristics of self-management for this clientele, for whom the current norm for care in regards to the management of a single disease may not be appropriate.

The aim of this paper is to review the literature to identify the characteristics of self-management among patients with chronic diseases and complex healthcare needs.

METHODOLOGY

Patient or public participation

Patients and/or the public were not involved in this study.

Design

A review of the literature including quantitative, qualitative and mixed studies was conducted on papers addressing the self-management of persons with complex healthcare needs. We followed the same synthesis process of the thematic analysis published in 2012 by Hudon et al.

Search methods

We conducted an electronic literature search in the MEDLINE and CINAHL databases, for articles in English and in French published between January 2000 and October 2018. An information specialist developed and ran the specific search strategies for each database. The following medical subject heading (MeSH) terms and keywords were used: self-care OR self-management OR self-monitoring AND multimorbidity OR comorbidity OR vulnerability OR complex* OR multiple chronic diseases OR multiple chronic conditions OR frequent users OR high users. We also examined articles found in the reference lists of collected articles (hand search).

Data collection

All search results were transferred to the Endnote X7 reference software and duplicates were eliminated. Articles retained had to respect the following criteria: (1) refer to self-management, (2) among a clientele with complex healthcare needs (multimorbidity, vulnerability, complexity and frequent use of health services) and (3) in a population of patients 18 years and older. One team member (A-PG-L) read all titles and abstracts to exclude articles that were clearly not eligible. We excluded references that did not meet our inclusion criteria and retained all other references for complete evaluation. Two reviewers (A-PG-L and CH or A-PG-L and M-CC) independently appraised the full text of the retained papers to identify potentially eligible articles. Discrepancies between the two reviewers regarding the inclusion or exclusion of papers were resolved by the third evaluator.

Analysis and synthesis

All selected articles were imported into the NVivo 11 qualitative analysis software. A mixed thematic analysis, deductive and inductive, was then performed on the results of the articles by three evaluators as described by Miles et al., using the Lorig and Holman model (six self-management skills and three self-management tasks). Excerpts were extracted from each of the reviewed articles and classified according to the self-management skills and tasks particular to patients with complex care needs. A second reading of the collected excerpts and familiarisation with the data allowed for the identification of emergent themes. Pair debriefing and team validation minimised the influence of researcher subjectivity and preconceptions. This was an iterative process where interpretations of the data extracted from the articles were validated, and where disagreements or questions were discussed and resolved by consensus among the three evaluators.

RESULTS

Included studies

Figure 1 shows the number of references found at each stage of the selection process. The search strategies identified 1192 references, of which 980 were kept after removing duplicates. The majority of these references were rejected because they addressed the self-management of a single disease and did not contain any notion of complexity. References found through hand searching (n=3) were also included, for a total of 60 potentially eligible references. Sixty papers were read completely. Of these, 38 articles were excluded after the full reading step: 15 did not contain any notion of complexity in the studied population; 11 did not address self-management; 9 did not address the challenges of self-management; 1 was an editorial; and 2 articles were on the validation of a measuring tool. A final sample of 22 articles was retained. Table 1 presents the characteristics of the included studies.
Need for prioritisation of self-care

Prioritisation of self-care is an important self-management challenge for patients with multiple chronic diseases. When the number of self-care activities or tasks to accomplish surpasses the amount of time available, patients will establish a daily plan around the management of their chronic conditions, and must inevitably determine which self-care activities to prioritise. Patients with multimorbidity prioritise self-care activities based on the identification of one dominant condition.

Three types of conditions are more frequently identified as dominant: a poorly controlled condition that tends to cause important exacerbations or negatively affect the control of other conditions, a condition that cannot be controlled solely by medication or an unstable condition for which it is impossible to anticipate daily self-management needs. The patient is more likely to adopt a self-management strategy if he or she thinks that it will benefit more than one condition.

Lack of motivation and greater risk for depression

Patients with complex needs may experience less energy and lack time and motivation to take part in self-management activities. They report feelings of sadness, anger and anxiety related to their illness. They are at an increased risk for depression. The emotional impact of disease can play an important role in decision making. A depressive state may give patients the impression that they are not capable of participating in self-management activities. Even when patients are committed to adopting healthier lifestyle habits, they admit that depression could delay them from taking action. If they focus on their inability to control a situation, patients tend to ruminate on the negative aspects of their health status and sink into emotional distress that prevents them from taking appropriate action when faced with a problem.

Increased risk of presenting poor self-efficacy

Self-efficacy is an important mediator of taking action. People’s beliefs about their own self-efficacy reflect their capabilities to produce designated levels of performance that exercise influence over events that affect their lives and determine how they ‘feel, think and motivate themselves and behave’ (p. 72). Patients with numerous comorbidities are more at risk of poor self-efficacy. A person with low self-efficacy may experience difficulty in taking action to change lifestyle habits or in preventing the exacerbation of symptoms, leading to frequent hospital visits.

Patients with multimorbidity living in underprivileged neighbourhoods have lower expectations in regard to health and ageing than patients from privileged neighborhoods. Patients living in situations of poverty often perceive that their poor health status is the norm, which greatly limits their motivation to improve their health. They may believe that if others are not able to improve their health status, neither will they. Social isolation can also affect the self-efficacy of these patients who think they do not have the capacity to engage in self-management activities. Support of family, friends and health providers can play an important role in improving self-efficacy.

Increased risk of receiving conflicting information

Patients with complex care needs are at risk of receiving conflicting information on the management of their diseases by the numerous health professionals that they meet. This can lead to increased anxiety and decreased self-management capacity.

A personalised evaluation of learning capacity, behaviour change and the desire to commit to self-management, as well as regular monitoring, facilitates patient self-management. Initiating too many changes at one time may overload the patient and his or her self-management capacity. Treatment goals should be selected based on patient motivation and willingness to change.

Opportunity to use personal experience

Complex healthcare needs do not necessarily require a new set of practices for each new diagnosis. Patients with complex care needs can use the knowledge and personal experience acquired in the past and apply them in various situations to better manage their health. However, economic hardship reduces structural and emotional capacity, which may often prevent people living in economically precarious areas from adopting self-management.
behaviours that have synergistic effects on many of their health issues.16

DISCUSSION
Patients with complex healthcare needs are confronted with self-management challenges, these being exacerbated in the presence of socioeconomic insecurity. These patients must often prioritise self-care according to one dominant condition. They are at risk for depression, psychological distress and low self-efficacy, as well as for receiving contradictory information from healthcare providers. However, their previous experiences may help them improve their self-management skills.

Liddy et al22 conducted a literature review aiming to explore barriers to self-management through the perspective of patients living with multiple chronic conditions. Of the 21 articles used in their thematic analysis, seven of them were also included in their review. Common themes emerged from both studies, such as contradictory information and high risk for depression. Our analysis also highlights other particularities such as poor self-efficacy, often observed in this clientele, and the fact that patients frequently rely on past experience to adequately take charge of their health.

One of the main challenges of self-management is the prioritisation of self-care. Patients with numerous chronic diseases are constantly confronted with having to make choices among the care activities to prioritise. Most will identify a dominant disorder on which to focus their efforts.13 In certain situations, the characteristics of a condition are in conflict with the management of others and the successful management of a condition can hinder the taking in hand of another.24 Patients will more easily accept to engage in self-care activities that they consider beneficial to more than one of their conditions.14 15 Social and economic conditions will influence how patients prioritise self-care.25 The healthcare provider can explore the reasons that guide this prioritisation for a given patient. Interventions may have a greater impact if the healthcare provider takes time to explain the benefits of self-management behaviours for the different conditions facing the patient.

Depression and emotional distress may impair self-management by decreasing motivation, prioritisation skills and problem solving. Negative emotions may also decrease self-confidence and self-efficacy,26 and distress is often present in this vulnerable clientele.27 28 Healthcare providers must remain vigilant during their self-management support activities with this clientele, for the quick detection of psychological distress and the treatment of mental health issues.

Patients with complex care needs reported receiving conflicting information from the healthcare professionals they consulted. Between 25% and 80% of patients received contradictory information on their diseases and their management.29 Receiving conflicting information from two sources that the person trusts can complicate self-management.29 In order to help these patients as much as possible, it is important that healthcare providers offer a personalised evaluation of their needs, as well as proper follow-up, and ensure good coordination between various health professionals.23

Although the majority of studies report that complexity is an additional challenge to self-management, the coexistence of many chronic conditions can also become an opportunity to call on past learning experiences.30 The healthcare provider can help the patient become aware of the knowledge and skills gained in the past as well as positive experiences.

Limitations
Our study presents some limitations. There is a lack of consensus in the literature regarding the definition of patients with complex needs. We ensured that the selection criteria developed for this study were broad enough to include a range of definitions for complexity. A limitation of any review is the potential omission of relevant articles as well as any unpublished material. However, all necessary measures were taken to ensure an exhaustive document review: our search strategy was adapted to various databases and was developed in collaboration with an information specialist. Furthermore, we identified additional papers by hand search.

CONCLUSIONS
Patients with complex health needs present challenges to self-management related to the prioritisation of self-care, a greater risk for depression or psychological distress, a greater risk of poor self-efficacy and the risk of receiving conflicting information from healthcare professionals. However, they can rely on their knowledge and previous experience gained in other situations to improve their self-management skills. Future studies could empirically validate the results of this research and contribute to the understanding of the experience of these patients. Healthcare providers can learn from these results to better adapt their self-management support interventions to meet the specific needs of this vulnerable clientele.

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