Challenges of self-management when living with multiple chronic conditions

Systematic review of the qualitative literature

Clare Liddy MD MSc CCFP FCFP  Valerie Blazkho MSc  Karina Mill

Abstract

Objective To explore the perspectives of patients who live with multiple chronic conditions as they relate to the challenges of self-management.

Data sources On September 30, 2013, we searched MEDLINE, EMBASE, and CINAHL using relevant key words including chronic disease, comorbidity, multimorbidity, multiple chronic conditions, self-care, self-management, perspective, and perception.

Study selection Three reviewers assessed and extracted the data from the included studies after study quality was rated. Qualitative thematic synthesis method was then used to identify common themes. Twenty-three articles met the inclusion criteria, with most coming from the United States.

Synthesis Important themes raised by people living with multiple chronic conditions related to their ability to self-manage included living with undesirable physical and emotional symptoms, with pain and depression highlighted. Issues with conflicting knowledge, access to care, and communication with health care providers were raised. The use of cognitive strategies, including reframing, prioritizing, and changing beliefs, was reported to improve people’s ability to self-manage their multiple chronic conditions.

Conclusion This study provides a unique view into patients’ perspectives of living with multiple chronic conditions, which are clearly linked to common functional challenges as opposed to specific diseases. Future policy and programming in self-management support should be better aligned with patients’ perspectives on living with multiple chronic conditions. This might be achieved by ensuring a more patient-centred approach is adopted by providers and health service organizations.

EDITOR’S KEY POINTS

• This review provides a unique view into patients’ perspectives of living with multiple chronic conditions, which are clearly linked to functional challenges and are not disease specific.

• Patients were able to clearly identify challenges associated with self-management and develop strategies to address these factors.

• People did not complain about lack of skill to manage medical tasks such as injecting insulin or blood pressure monitoring; rather, they reported difficulties in dealing with physical and emotional symptoms, with depression, pain, and fatigue being prominent. Issues related to knowledge about self-management of conditions commonly arose because of confusing and often contradictory information provided by multiple health care providers.

This article has been peer reviewed.
Can Fam Physician 2014;60:1123-33
Recherche

Les défis de l’autogestion lorsqu’on vit avec plusieurs maladies chroniques

Revue systématique de la littérature qualitative

Clare Liddy MD MSc CCFP FCFP Valerie Blazhko MSc Karina Mill

Résumé

Objectif Vérifier ce que pensent les patients qui vivent avec plusieurs maladies chroniques des défis associés à l’autogestion de leur condition médicale.

Sources des données On a consulté MEDLINE, EMBASE et CINAHL le 30 septembre 2013 à l’aide des rubriques chronic disease, comorbidity, multimorbidity, multiple chronic conditions, self care, self management, perspective et perception.

Choix des études Après avoir vérifié le niveau de qualité des études retenues, trois réviseurs les ont évaluées et en ont extrait les données. Une méthode de synthèse thématique qualitative a servi à identifier les thèmes.

Synthèse Les thèmes importants mentionnés par les personnes souffrant de plusieurs maladies chroniques comprenaient leur capacité de gérer leur traitement, le fait de vivre avec des symptômes physiques et psychologiques indésirables, plus particulièrement la douleur et la dépression. Certains soulevaient des questions à propos des renseignements contradictoires, de l’accès aux soins et de la communication avec les soignants. Selon les participants, l’utilisation de stratégies cognitives, incluant un recadrage, une priorisation et des changements dans les croyances, pouvait améliorer leur capacité d’autogérer leurs multiples maladies chroniques.

Conclusion Cette étude permet une vision unique de ce que pensent les patients du fait de vivre avec de multiples maladies chroniques, les défis qu’ils rencontrent étant clairement reliés à des difficultés de fonctionnement et non à des maladies particulières. Il serait opportun qu’à l’avenir, les politiques et les programmes de soutien à l’autogestion des problèmes de santé tiennent davantage compte de ce que pensent les patients qui vivent avec de multiples maladies chroniques. On pourrait y parvenir en s’assurant que les soignants et les organismes de santé utilisent une approche davantage centrée sur le patient.

POINTS DE REPÈRE DU RÉDACTEUR

• Cette revue est une occasion unique de savoir ce que les personnes souffrant de plusieurs maladies chroniques rencontrent comme défis, lesquels sont clairement reliés à des difficultés fonctionnelles et non à des maladies particulières.

• Les patients pouvaient facilement identifier les problèmes liés à l’autogestion de leur santé et développer des stratégies pour y faire face.

• Les patients ne se plaignaient pas d’un manque de compétences pour des tâches médicales, comme les injections d’insuline ou la mesure de la tension artérielle; ils mentionnent plutôt avoir des difficultés à gérer certains symptômes physiques ou psychologiques, tels que la dépression, la douleur et la fatigue, qui constituent des problèmes particulièrement importants en rapport avec l’autogestion de leur condition à cause des renseignements confus et souvent contradictoires qu’ils reçoivent des nombreux soignants.

Cet article a fait l’objet d’une révision par des pairs. Can Fam Physician 2014;60:1123-33
Multimorbidity, or having multiple chronic conditions, is defined as the simultaneous occurrence of 2 or more diseases or medical conditions in one person.1 The burden of multiple chronic conditions in aging populations is rapidly increasing.2-4 The health outcomes are worse for such patients, with lower self-reported health, higher rates of health care visits, and higher risk of medication issues.5

The importance of supporting self-management for people with multiple chronic conditions is being increasingly recognized as a key component of improving the overall health of this population.6-10 Self-management relates to “the tasks that individuals must undertake to live well with one or more chronic conditions.”11 Self-management support uses collaborative goal setting and self-efficacy strategies to enable patients to carry out normal roles and activities and better manage the medical and emotional effects of their illnesses in partnership with health care providers.6 Self-management support interventions vary and can include such components as group meetings, motivational counseling, case management, patient education, and follow-up.

Multiple studies have evaluated the effectiveness of programs designed to support self-management in patients with chronic diseases. These studies often use quantitative methods and focus on clinical outcomes.12-15 However, issues related to self-management of chronic conditions should be examined not only from the perspective of providers and the health care system itself, but also from the perspective of patients.16,17 To our knowledge, there are no qualitative reviews that address self-management of multiple chronic conditions from patients’ perspectives.

Thus, the purpose of this paper is to gain a greater understanding of patients’ perspectives on living with multiple chronic conditions, specifically related to the barriers to self-management and subsequently any strategies adopted by people living with multiple chronic conditions. The results of this review should help inform both governments and the medical community to develop policy and programming in self-management support that are aligned with patients’ perspectives on living with multiple chronic conditions.

DATA SOURCES

We chose to examine the qualitative literature, as this type of research is most likely to provide patients’ perspectives with “conceptual depth about the patient experience.”18 Conversely, the quantitative literature on self-management focused largely on the effectiveness of various programs designed to promote self-management. There were several stages to the review, including development of the search strategy, application of inclusion and exclusion criteria, quality appraisal, and synthesis of the findings.

On September 30, 2013, we searched MEDLINE (In-Process and Other Non-Indexed Citations, and 1948 to present), EMBASE (Classic and 1947 to present), and CINAHL (1981 to present) using relevant key words including chronic disease, comorbidity, multimorbidity, multiple chronic conditions, self-care, self-management, perspective, and perception. In addition, we did a hand search of references and searched the International Research Community on Multimorbidity website.19

Quality rating was done based on the Critical Appraisal Skills Programme, an accepted rating tool for qualitative research.20 The Critical Appraisal Skills Programme provides researchers with checklists designed to appraise study quality. Articles with 1 or more unacceptable items and articles with more than 4 inadequate items were rated as poor quality and excluded.

A thematic synthesis method was used to analyze the articles.21,22 Three researchers independently read and open-coded relevant sections of each article, looking for barriers and strategies identified by patients. Using these codes, descriptive themes were constructed, followed by the development of analytic themes.23 While researchers were familiar with the published literature in the field, they did not start the analysis with explicit potential factors and themes in mind; rather, they identified the emergent themes from the articles.24 The research team regularly met during the analysis to discuss the themes, cross-check evidence back to the original studies, and identify any disconfirming evidence. As a final step, we applied Hudon and colleagues’ conceptual framework of patient-centred care25 as an explanatory framework for the important themes. It is based on the model of patient-centred care by Stewart et al26 and is integrated with a conceptual model of the doctor-patient relationship by Mead and Bower.27 Hudon et al created this framework for their systematic review of tools to measure patients’ perceptions of patient-centred care. The framework identifies 4 dimensions of patient-centred care grounded in aspects of the doctor-patient relationship: the patient as a person (disease and illness experience); the biopsychosocial perspective (whole person); the therapeutic alliance (patient-doctor relationship); and sharing power and responsibility (common ground).28

SYNTHESIS

We found 256 records using the search strategy, and 7
additional articles were included from hand searching references. Once duplicate removal, relevance screening, and quality appraisal were done, a final 23 articles were included in our synthesis (Figure 1).

All included studies contained qualitative data. Most were recently published (range 2003 to 2011) and conducted in the United States, with the remainder from Australia and the United Kingdom (Table 1).7,8,28-48

The common themes that emerged through our review can be viewed through the lens of the conceptual framework for patient-centred care described above. Figure 2 provides a visual depiction of Hudon and colleagues’ framework and Figure 3 illustrates the framework overlaid with our findings.25-27 Our findings are reported below, using the 4 dimensions outlined by Hudon and colleagues’ framework (patient as person, biopsychosocial perspective, therapeutic alliance, and sharing power and responsibility) as a guide.

**Patient as person**

Our main findings pertaining to the patient-as-person dimension involved the experience of disease and illness.

People with multiple chronic conditions experienced a great deal of suffering from physical and emotional symptoms (eg, depression). Undesirable physical and emotional symptoms and impaired physical functioning can directly prevent patients from carrying out normal daily activities, including tasks required to appropriately and successfully self-manage.28-30 In people with multiple chronic conditions, physical and emotional symptoms can compound and build off of each other, resulting in a larger negative effect on their daily lives.28,30-32 These symptoms are interdependent and symptoms of one condition can be aggravated by the symptoms, treatment, or medications of another condition. Some symptoms might overshadow others and reduce the patient’s ability to manage his or her care.7 For example, many patients...
### Table 1. Characteristics of publication examining the perspectives of patients living with multiple chronic conditions

<table>
<thead>
<tr>
<th>STUDY</th>
<th>DESIGN</th>
<th>SAMPLE SIZE</th>
<th>FEMALE, %</th>
<th>AGE, Y</th>
<th>OBJECTIVES</th>
<th>COUNTRY</th>
<th>CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bayliss et al,7 2003</td>
<td>Qualitative study, semistructured personal interviews</td>
<td>16</td>
<td>81</td>
<td>Range 31-70</td>
<td>Identify perceived barriers to self-care among patients with comorbid chronic diseases</td>
<td>US</td>
<td>2 or more common chronic conditions (4.3 on average)</td>
</tr>
<tr>
<td>Noël et al,8 2007</td>
<td>Cross-sectional survey</td>
<td>720</td>
<td>10</td>
<td>Median 57</td>
<td>Examine the self-management learning needs and willingness to see nonphysician providers of patients with multimorbidity compared with patients with single chronic illnesses</td>
<td>US</td>
<td>Multiple chronic conditions vs single condition</td>
</tr>
<tr>
<td>Bair et al,28 2009</td>
<td>Qualitative study using focus groups</td>
<td>18</td>
<td>61</td>
<td>Range 27-84</td>
<td>Identify barriers and facilitators to self-management of chronic musculoskeletal pain among patients with comorbid pain and depression</td>
<td>US</td>
<td>Pain, comorbid depression</td>
</tr>
<tr>
<td>Bayliss et al,29 2008</td>
<td>Qualitative investigation</td>
<td>26</td>
<td>50</td>
<td>Range 65-84</td>
<td>Explore processes of care desired by elderly patients who have multimorbidities that might present competing demands for patients and providers</td>
<td>US</td>
<td>Diabetes, depression, or osteoarthritis (4-16 comorbidities)</td>
</tr>
<tr>
<td>Roberto et al,30 2005</td>
<td>Qualitative analysis</td>
<td>17</td>
<td>100</td>
<td>Range 69-84</td>
<td>Examine the health care practices and management strategies used by 17 older women with multiple chronic conditions</td>
<td>US</td>
<td>Heart disease and diabetes; heart disease and osteoporosis; or all 3</td>
</tr>
<tr>
<td>Jowsey et al,31 2009</td>
<td>Semistructured interviews and focus group</td>
<td>52</td>
<td>46</td>
<td>Range 45-85</td>
<td>Identify the common challenges comorbidity poses to patients and caregivers in their experiences of self-management, detail the views and perceptions of health professionals about these challenges, and discuss policy options to improve health care for people with comorbid chronic illness</td>
<td>Australia</td>
<td>1 or more of diabetes, COPD, or CHF</td>
</tr>
<tr>
<td>Noël et al,32 2005</td>
<td>Focus groups using a series of open-ended questions</td>
<td>60</td>
<td>20</td>
<td>Range 30-80</td>
<td>Explore the collaborative care needs and preferences in primary care patients with multiple chronic illnesses</td>
<td>US</td>
<td>2 or more chronic illnesses</td>
</tr>
<tr>
<td>Bardach et al,33 2011</td>
<td>One-on-one interviews</td>
<td>42</td>
<td>71</td>
<td>Mean 63, range 51-76</td>
<td>Explore how vulnerable rural residents described social support in the context of self-management for multiple chronic conditions</td>
<td>US</td>
<td>All patients with multiple chronic conditions</td>
</tr>
<tr>
<td>Beverly et al,34 2011</td>
<td>Qualitative study, focus groups</td>
<td>32</td>
<td>56</td>
<td>Range 60-88</td>
<td>Explore older patients’ perceived effects of chronic comorbidity conditions on type 2 diabetes self-management</td>
<td>US</td>
<td>Type 2 diabetes and 1 or more other conditions</td>
</tr>
<tr>
<td>Dickson et al,35 2011</td>
<td>Qualitative descriptive meta-analysis techniques</td>
<td>99</td>
<td>34</td>
<td>Mean 59.6</td>
<td>Explore how comorbidity influences heart failure self-care</td>
<td>US</td>
<td>Heart failure and at least 1 comorbid condition</td>
</tr>
<tr>
<td>Townsend et al,34 2003</td>
<td>Qualitative longitudinal study with in-depth interviews every 5 y</td>
<td>23</td>
<td>57</td>
<td>Range 53-58</td>
<td>Examine attitudes toward drug use among middle-aged respondents with high levels of chronic morbidity</td>
<td>Scotland</td>
<td>4 or more chronic conditions</td>
</tr>
<tr>
<td>Townsend et al,32 2008</td>
<td>Qualitative longitudinal study with in-depth interviews every 5 y</td>
<td>23</td>
<td>57</td>
<td>Range 58-63</td>
<td>Investigate reasons for frequent consultation among people with multiple morbidity but contrasting consulting rates</td>
<td>Scotland</td>
<td>4 or more chronic conditions</td>
</tr>
<tr>
<td>Bayliss et al,36 2007</td>
<td>Cross-sectional telephone survey</td>
<td>352</td>
<td>65</td>
<td>Range 65-74</td>
<td>Identify barriers to self-management that were associated with lower perceived health status and, secondarily, with lower reported physical functioning for a population of seniors with multimorbidities</td>
<td>US</td>
<td>Average 8.7 chronic medical conditions</td>
</tr>
</tbody>
</table>
Challenges of self-management when living with multiple chronic conditions

Table 1 continued from page 1127

<table>
<thead>
<tr>
<th>STUDY</th>
<th>DESIGN</th>
<th>SAMPLE SIZE</th>
<th>FEMALE SEX, %</th>
<th>AGE, Y</th>
<th>OBJECTIVES</th>
<th>COUNTRY</th>
<th>CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corser and Donte,³⁹ 2011</td>
<td>Qualitative study</td>
<td>18</td>
<td>78</td>
<td>Mean 63.7, range 34-83</td>
<td>Explore the perceived health care needs of adults with numerous comorbid conditions by focusing on their self-management practices and relationships with primary care providers</td>
<td>US</td>
<td>At least 4 comorbid conditions</td>
</tr>
<tr>
<td>Loeb,⁴⁰ 2006</td>
<td>Focus group</td>
<td>28</td>
<td>69</td>
<td>Seniors</td>
<td>Identify strategies used by community-dwelling elderly African American patients to cope with their chronic health conditions</td>
<td>US</td>
<td>Patients with at least 2 chronic conditions (a total of 14 different types of conditions among patients)</td>
</tr>
<tr>
<td>Morris et al,⁴¹ 2011</td>
<td>Longitudinal qualitative study using semistructured interviews</td>
<td>21</td>
<td>48</td>
<td>Mean 93, range 36-84</td>
<td>Examine what influences self-management priorities for individuals with multiple long-term conditions and how this changes over time</td>
<td>UK</td>
<td>2 or more conditions, (must have 1 of IBS, COPD, or diabetes)</td>
</tr>
<tr>
<td>Schoenberg et al,⁴² 2011</td>
<td>Qualitative study, 3-stage in-depth interview</td>
<td>20</td>
<td>85</td>
<td>Mean 55, range 41 and above</td>
<td>Improve understanding of the ways in which vulnerable, rural residents experience and manage multiple morbidity</td>
<td>US</td>
<td>Average of 4 chronic, self-reported health conditions (including hypertension, arthritis, type 2 diabetes, cancer, stroke, and numerous others)</td>
</tr>
<tr>
<td>Sells et al,⁴³ 2009</td>
<td>Qualitative, longitudinal retrospective study, semistructured interviews with 3 questionnaires</td>
<td>33</td>
<td>70</td>
<td>Mean 50.5</td>
<td>Describe and better understand adults’ responses to the onset, accrual, and influence of multiple chronic conditions and to social support in adapting to consequent difficulties</td>
<td>US</td>
<td>All participants carried multiple medical diagnoses</td>
</tr>
<tr>
<td>Whittemore and Dixon,⁴⁴ 2008</td>
<td>Mixed-method descriptive design, semistructured interview</td>
<td>26</td>
<td>63</td>
<td>Range 25-80</td>
<td>Explore how adults with a chronic illness integrate the illness experience into their life contexts</td>
<td>US</td>
<td>Average of 4 comorbidities (most participants had more than 1 chronic condition)</td>
</tr>
<tr>
<td>Schoenberg et al,⁴⁵ 2009</td>
<td>In-depth interviews</td>
<td>41</td>
<td>85</td>
<td>Mean 70.4, range 55-90</td>
<td>Investigate which comorbidities older adults prioritize, why, and how they accommodate these conditions, focusing on elderly patients with 2 or more chronic conditions and low socioeconomic status</td>
<td>US</td>
<td>Hypertension, arthritis, and diabetes</td>
</tr>
<tr>
<td>Leach and Schoenberg,⁴⁶ 2008</td>
<td>Interview, qualitative data</td>
<td>41</td>
<td>85</td>
<td>Range 55-84</td>
<td>Increase understanding of how older adults attempt to manage multiple morbidities and retain control of their health</td>
<td>US</td>
<td>High blood pressure, arthritis, diabetes</td>
</tr>
<tr>
<td>Warren-Findlow and Prohaska,⁴⁷ 2008</td>
<td>Qualitative study with multiple in-depth interviews conducted over 2 y</td>
<td>12</td>
<td>100</td>
<td>Mean 62, range 50-73</td>
<td>Describe the specific type and extent of social support provided by family members to older African American women managing chronic disease</td>
<td>US</td>
<td>In addition to heart disease, participants self-reported having other chronic illnesses: hypertension, arthritis, obesity, gastroesophageal reflux disease, asthma, sleep apnea, and diabetes</td>
</tr>
<tr>
<td>Sakraida and Robinson,⁴⁸ 2009</td>
<td>Semistructured focus groups</td>
<td>12</td>
<td>50</td>
<td>Mean 58</td>
<td>Describe the transition and self-management experiences of patients diagnosed with type 2 diabetes mellitus and stage 3 chronic kidney disease</td>
<td>US</td>
<td>Type 2 diabetes and stage 3 chronic kidney disease</td>
</tr>
</tbody>
</table>


reported that their pain⁸,28-30,32-37 was one of the biggest factors limiting their ability to self-manage effectively. Depression featured prominently for people with multiple chronic conditions.⁸,28,31,32,37-44 Many felt emotionally unstable; lacked motivation or self-discipline⁸,28, or experienced anxiety, sleep disturbances, lack of energy, worry, fear of activity,⁸,28,30 and fear for personal health⁸,31,32,37,62,64 and of death.⁸,28,30,38,39,46
Biopsychosocial perspective

Three key themes emerged related to the biopsychosocial perspective: the effect of cognitive approaches, the complexity of social support, and lack of financial resources.

**Effect of cognitive approaches.** For many patients, changing their cognitive approach to their illness was the best way to deal with their physical and emotional symptoms and limitations.41,44,46 Multiple cognitive strategies were raised including prioritizing conditions,34,39 reframing and regulating the amount of attention given to their situation,20 dealing with it, engaging in life and body listening,40 relinquishing control to another source (eg, doctor, God),46 and changing their beliefs (eg, assigning new meanings to daily chores or activities).30 Living with multiple chronic conditions became a way of life for people, who reported fluctuating between “living a life and living an illness.”44

Despite some people reporting being overwhelmed at times, many more seemed resilient and determined to persevere in spite of their challenges.8,43 In some cases, the more conditions someone had, the better they considered themselves at self-management because they already had developed skills such as self-monitoring and self-advocacy,40 or they became more motivated because of the heightened risk.30,46 Additional conditions were more readily accommodated if people established a cognitive link between existing management practices.40,41

**Complexity of social support.** Lack of social support was described as a barrier.7,28,30,32,33,37,43,46,47 Having appropriate social support, or at least knowing you could have it if you needed it, was very often referred to as a strong enabler to successful self-management.28,30,43,44 However, social support was also seen as a barrier to self-management when family or friends interfered with treatment plans or independence. Sometimes the intended support and help that family and friends tried to provide hindered patients’ ability to self-manage or feel confident in managing their conditions.30,33,47

**Lack of financial resources.** Lack of insurance for care, including the need to pay for medications and associated financial strain of expensive medications, was reported by patients.29-32,34,38,46,47 Additionally, the physical symptoms and frequent medical appointments associated with multiple chronic conditions might reduce employees’ productive time,40,45 occasionally leading to short- or long-term unemployment.45

**Therapeutic alliance**

Our main theme pertaining to therapeutic alliance was that the doctor-patient relationship was not always therapeutic. Patients cited contradictory knowledge, poor access, and challenges with medication as barriers to care.

**Contradictory knowledge.** Patients wanted to be knowledgeable enough about their situation to be able to look out for themselves,33,35,40 to be able to prioritize their conditions,30 to be more informed, assertive,
and self-reliant when interacting with their providers. However, many reported confusion and contradictory information about conditions, as multiple information sources exist. When consulting various providers, patients often received conflicting instructions about their individual needs, priorities, and management strategies.

**Poor access.** People with multiple chronic conditions seemed to emphasize their medical needs, resulting in a greater reliance on health care providers, but convenient access to providers was often limited and no one was readily available to answer or clarify small questions as well as urgent concerns. In addition, where access was available, more frequent encounters with health care providers were reported as a barrier. Patients believed that they were not listened to when they raised concerns, and that providers were nonsupportive and often disagreed on priorities.

**Challenges with medication.** Problems related to medications were specifically highlighted as a barrier to self-management. Patients understood the importance of using medications correctly but lacked the skill to address issues related to side effects, coordination of medication, and overreliance on medications. A troubled emotional state and anxiety (a prominent symptom) were also found to alter patients’ ability to understand and receive information, which can lead to medication noncompliance.

**Sharing power and responsibility.** The key theme that emerged relating to sharing power and responsibility was the importance of finding common ground between patients and providers.

Several factors were identified by patients to assist in overcoming the barriers associated with the doctor-patient relationship such as being able to ask doctors questions and seek answers to their health concerns. Patients wanted to be listened to and have their individual, fluctuating needs appreciated. Tailored, written information and care plans that are mutually agreed upon and respect for the patient’s priorities and agendas were specifically identified as helpful. Written information should be kept simple. Individualized, integrated care plans should be explained to clarify and address potentially conflicting treatment strategies.

People also wanted to be assisted with locating resources. In particular, better access to mental health care resources and the close monitoring of patients’ emotional states by their physicians were seen as helpful.

**DISCUSSION**

In our systematic review of the qualitative literature examining patients’ perspectives of living with multiple chronic conditions, we found that patients were able to clearly identify challenges associated with self-management and develop strategies to address these factors. The barriers to self-management are many and yet common among people with many different diseases. However, while most studies were disease-specific, we found that discussion among patients that related to specific medical conditions and disease-specific symptoms was strikingly absent. People did not complain about lack of skill to manage medical tasks such as injecting insulin or blood pressure monitoring; rather, they reported difficulties in dealing with physical and emotional symptoms, with depression, pain, and fatigue being prominent. In addition, issues related to knowledge about self-management of conditions commonly arose because of confusing and often contradictory information provided by multiple health care providers.

Yet medical task management and patient education remain the focus of the medical community, with much of the programming targeted toward disease groups and optimizing care for target control of a specific condition (e.g., hemoglobin A1c for people with diabetes). Thus, there is a need to support more programming such as the group generic Chronic Disease Self-Management Program, which remains the most widely adopted self-management support program internationally. The generic approach highlights active goal setting, problem solving, adoption of healthy lifestyles, navigating the medical system including communication with providers, and medication management within the context of general symptoms, such as pain, fatigue, and stress. It aligns very well with the body of literature relating to the experiences of people living with multiple chronic conditions.

The effects of multiple chronic conditions on a person are not always linear. Multimorbidity might have a dual role in self-management support. While most studies suggest that the coexistence of medical conditions might lead to inadequate self-management, some have found that multimorbidity improves patients’ self-management. Patients often have to prioritize conditions or reconcile their physicians’ advice. These “coping” mechanisms are the result of the lived experiences of being a person with multiple chronic conditions. The use of cognitive techniques such as diversion, normalizing, and changing beliefs was commonly reported by patients. It is possible that repeated poor health and increasing suffering create a tipping point for patients, whereby they are able to take charge of their health more effectively, despite having multiple chronic conditions.

**Policy and practice implementations**

Our findings aligned well with Hudon and colleagues’
conceptual framework for patient-centred care and highlighted the importance of patient-centred care for people with multiple chronic conditions, which requires a “willingness to become involved in the full range of difficulties patients bring to their doctors, and not just their biomedical problems.” Viewing the patient as a whole person and trying to see the world through their eyes is essential when establishing a therapeutic alliance with people who live with multiple chronic conditions. This whole-person approach is supported by recent work by Smith et al who, in a review of interventions for managing patients with multimorbidity, found that programs targeting specific areas of concern, such as functional difficulties, were more effective than other programs.

Primary care providers can play a foundational role in supporting patient self-management, especially for people with multiple chronic conditions, as 95% of Canadians with a chronic illness report having access to a regular family physician. However, finding common ground and sharing power and responsibility requires a fundamental shift of the patient-caregiver relationship into a collaborative partnership to support the patient. Providers need to be ready to support patients when they need it. There has been much emphasis on the implementation of the chronic care model leading to the activated patient. However, unless providers within the system are also at that stage of readiness, their efforts will fall short.

In our review, beyond the cognitive strategies identified by patients, better communication and continuity were requested by the patients, with acknowledgment of the patient’s experience, including knowledge. Improved care coordination such that each provider in the circle of care works collaboratively and in an integrated manner with minimal conflicting recommendations is needed. Establishing continuity of relationships with physicians and regular visits to patients’ primary care physicians are essential components in avoiding re-education of providers on patients’ complex care needs. The movement to create a patient-centred medical home (PCMH) in primary care should support this approach through the establishment of community health links.

**Limitations**

Our focus on the qualitative literature enabled us to capture papers that reported in depth on patient perspectives of living with multiple chronic conditions. The synthesis methods for qualitative literature are still under development and there are limited formal guidelines available, so where possible we built our approach based on other published qualitative reviews. We might have missed other relevant papers owing to lack of validation of the terms related to multimorbidity, and by excluding the quantitative research in this area as well as limiting included publications to the English language only.

Most of the included studies are from the United States and this limits the generalizability of the findings, especially related to financial aspects, although employment-related challenges due to frequent medical appointments would be relevant in other countries and are not only related to the health system. There was a higher proportion of women (56%) across most of the included studies and this might be because women are more likely to report multiple conditions.

Finally, several important variables that might have contributed to the ability of patients to self-manage were not always reported by the research studies. These included social determinants of health such as socioeconomic status, educational level, disease duration, and patient self-efficacy. A small body of quantitative research has found that social disadvantage and lower levels of education are associated with a reduced likelihood of patients engaging in self-management. However, qualitative research examining these variables from patients’ perspectives would be valuable, and additional research should be conducted to further explore the effects of social determinants of health on self-management.

**Conclusion**

There are many complexities to the delivery of care for people with multiple chronic conditions. The burden of suffering is great, as is the increasing burden to the health care system and society as a whole. This review provides a unique view into patients’ perspectives of living with multiple chronic conditions, which are clearly linked to functional challenges and are not disease specific. Future policy and programming in self-management support should be better aligned with patients’ perspectives of living with multiple chronic conditions and this might be achieved by ensuring a more patient-centred approach is adopted by providers and health service organizations.
Research

Challenges of self-management when living with multiple chronic conditions

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