A B S T R A C T

Introduction: Chronic conditions are a growing healthcare concern. People living in rural regions are particularly affected because many barriers exist to accessing services and supports. Peer support for chronic condition self-management, where people living with chronic conditions learn about how to care for themselves and maintain their health from people also living with chronic conditions, is one approach gaining recognition. What remains unknown are the unique challenges and strategies associated with peer support for chronic condition self-management in rural contexts. In order to inform the development of peer supports in the authors’ local context in rural eastern Canada, a scoping review was undertaken to discover community-based peer support initiatives for adults in rural settings living with chronic conditions.

Methods: The authors followed established scoping review methods to answer the research question What is known from the existing literature about the key features and potential formats of community-based peer support initiatives for adults living with chronic conditions in rural settings? Six databases (CINAHL, PubMed, Sociological Abstracts, Embase, Cochrane Libraries and PsycInfo) were searched using the following concepts: chronic conditions, peer support, community-based and rural context. Two researchers reviewed the titles and/or abstracts of the 1978 articles retrieved from the initial search to include articles that were in English, published in 2000 to 2014, and that explicitly discussed rural programs/interventions with peers that were community-based. The initial screen excluded 1907 articles, leaving 71 articles, which were read by two research members in light of the inclusion/exclusion criteria. Thirteen articles representing 10 separate programs were included and analyzed using qualitative content analysis.

Results: Included programs were from the USA, Australia and Canada. A range of formats (telecommunications only, in-person meetings only, or a combination of both) were used. Peer leaders had varied experiences with chronic conditions and received training in content and facilitation skills. Peer leaders were provided with ongoing support. Program participants received training on chronic conditions, and programs provided opportunities for social support and the development of new skills. Programs focused
on creating social connections, reducing stigma, ensuring relevance and promoting empowerment. Of the nine programs that reported outcomes, eight reported positive outcomes and one reported mixed results.

Discussion: Consistent with the extant literature, the programs identified unique issues faced by people with chronic conditions in rural areas that these programs addressed. The key findings of this scoping review are as follows: 1. A combination of telecommunications with some face-to-face meetings can support the accessibility of peer support programs in rural areas. 2. Core elements of these programs are the provision of social support and skill development. 3. Peer leaders benefit from skills training and ongoing support. 4. Sustainability of such programs is complex and requires multiple strategies.

Conclusions: Cultural relevance, ongoing support and the use of telecommunications were key features of rural peer support programs. Guiding questions to facilitate a community consultation around these findings are provided. Peer support chronic condition self-management programs require further research.

Key words: adult, chronic disease, delivery of health care, rural populations, self-care, self-help groups, social isolation, social support.

Introduction

Chronic conditions (such as arthritis, cancer, diabetes, depression, heart disease, asthma and chronic obstructive pulmonary disease) are a growing healthcare concern in Canada, as in many other developed countries. Approximately half of all Canadians are living with at least one chronic condition¹ and it is estimated that chronic conditions amount to more than C$90 billion each year in lost productivity and health care costs². In the USA, more than 60 million people have multiple chronic conditions.³ Similarly, chronic conditions are a major health concern in Australia, with more than 7 million people having at least one chronic condition⁴. It is essential that effective ways to meet the health needs of this growing population are found.

In addition to healthcare services, people living with chronic conditions need support in learning and maintaining self-care behaviours that enable healthy living, often referred to as 'chronic condition self-management'⁵⁻⁷. Self-management within the context of chronic conditions refers to an individual’s ability to manage the symptoms, treatment, and physical, psychosocial and lifestyle changes that accompany living with a chronic condition.⁶,⁷ Receiving growing recognition as an effective and cost-efficient way of supporting people with chronic physical or mental health conditions to self-manage their health condition is the use of peer supports.⁷,⁸ A poorly defined and inconsistently used⁹,¹⁰ term in the literature, peer support, for the purposes of this article, refers to support for a person with a chronic condition from someone with the same condition or similar circumstances⁵.

Peer support within a healthcare context involves '… the provision of emotional, appraisal and informational assistance by a created social network member who possesses experiential knowledge of a specific behaviour or stressor and similar characteristics as the target population'¹⁰. Peer supporters largely offer three types of support based on experiential knowledge: emotional, informational and appraisal¹⁰. Emotional support involves caring, empathy and encouragement; informational support involves advice, alternative actions suggestions, and factual input relevant to a specific issue; and appraisal support involves affirming feelings, thoughts and behaviors and thus is motivational in nature, encouraging the person to continue with problem-solving attempts despite frustrations¹⁰.

In chronic condition management, evidence showing the effectiveness of peer support for people living with chronic conditions to self-manage their conditions is strong.⁵,⁷,¹¹,¹² Heisler provides a thorough overview of seven types of peer support models in chronic condition management⁵.
While Heisler’s overview is useful in guiding the description, development and evaluation of peer supports for people living with chronic conditions, the unique challenges and strategies accompanying peer support in rural contexts have not been as thoroughly explored. This is particularly worthy of further exploration since many jurisdictions have noted the additional health disparities experienced by people living in rural regions, where economic disparity, aging populations, transportation issues and limited health services can further impact how people are able to manage their chronic conditions, and that may also impact their ability to access and benefit from peer support programs. As populations in rural areas age, there is often a higher proportion of people with chronic conditions in locations where there may be less access to services. For example, people living with chronic conditions in rural areas face additional challenges as they try to manage their health conditions. Some of these challenges include limited healthcare resources; few health professionals and consequently fewer support groups; longer distances; unpredictable road and weather conditions; increased risk for chronic conditions because of tobacco use and exposure, obesity, dietary factors, insufficient physical activities, and socioeconomic factors. There is a need to learn how best to support people in overcoming these challenges from service providers; providing access to peer supports may be one solution.

Within their local rural context of the south shore of Nova Scotia, which has the oldest population in the province, with high rates of obesity and chronic conditions, the authors have worked with health and recreation sectors to discuss innovative ways to promote self-management. Consultations with community partners have identified challenges similar to those identified in the literature faced by the aging populations in this rural area, including poverty, transportation, lack of communication, social isolation, lack of information on community resources and limited social supports. During consultations, strengthening social supports through formal and informal peer support was identified as a key strategy for supporting self-management in this rural region. In order to inform the development of peer supports in this context, a scoping review was undertaken to discover community-based peer support initiatives for adults in rural settings living with chronic conditions.

### Methods

Scoping reviews are exploratory in nature, with the aim of summarizing a range of research activities, mapping key concepts, identifying main sources of evidence and identifying gaps in the literature about a research topic. They can be useful tools for knowledge exchange and transfer with community partners who can offer content expertise and perspectives on preliminary findings. Scoping reviews are particularly appropriate for topics with emerging evidence that lack randomized control trials and where it is anticipated that literature may be limited or there would be diversity in types of studies. As such, unlike systematic reviews, which strive to provide answers to questions from a relatively narrow range of quality assessed studies, scoping reviews are less likely to address very specific research questions or, consequently, to assess the quality of the included studies.

The authors followed the five stages of a scoping review outlined by Arksey and O’Malley and advanced by Levac et al, with a brief description of the research team’s process at each stage.

**Identify research question:** This scoping review aimed to answer the question *What is known from the existing literature about the key features and potential formats of community-based peer support initiatives for adults living with chronic conditions in rural*...
settings. Structures of peer support in rural areas and the support/preparation provided to peer leaders in these rural settings developed into sub-questions.

Identify relevant studies: A research librarian was contracted to create and run searches in six databases (CINAHL, PubMed, Sociological Abstracts, Embase, Cochrane Library and PsycInfo) from the date of inception to July 2013. The searches combined the concept of chronic conditions (including both physical and mental health conditions) with the concept of rural, community-based peer support. These concepts were captured by identifying relevant index terms and their free-text synonyms. See Appendix I for the full PubMed search strategy. The search was adapted to the other databases, taking into account appropriate search syntax and corresponding index terms. The search produced a total of 1978 abstracts. The references of included studies and related reviews were checked for additional relevant citations, which were also reviewed in relation to the inclusion and exclusion criteria below.

Study selection: In light of a detailed protocol that provided descriptions of inclusion/exclusion criteria with examples, all abstracts were reviewed by two research team members. Inclusion criteria featured:

- interventions/programs (rather than opinion pieces)
- the years 2000–January 2014 (to ensure currency)
- English only (due to language limitations of the research group)
- adults (≥18 years)
- explicit involvement of peers who work with people who have a chronic condition the peer is familiar with
- community-based (rather than hospital-based) with an emphasis on community involvement (rather than medical management)
- explicit reference to being located in rural settings.

Inclusion/exclusion criteria were further refined and discussed by the research team to address any ambiguous articles encountered. Through these discussions, the following exclusion criteria were refined:

- professional-led initiatives with no focus on the development of peer supports
- initiatives that only focus on friendship development without reference to community involvement
- initiatives that focus on caregivers of people with chronic conditions
- involvement of lay leaders who do not have lived experience of chronic condition.

Following the review of all 1978 abstracts by two team members, 1907 articles were excluded, leaving 71 articles to be reviewed in full. Each of these 71 articles was read by two team members. The research team met regularly during this stage to discuss challenges in applying the inclusion/exclusion criteria and their modifications, including (a) excluding projects from developing countries (where differences in contextual factors limited applicability to the Canadian context) and urban-based telephone peer support, and (b) including projects that targeted people at risk of chronic conditions, in addition to those living with chronic conditions. A secondary review of bibliographies was also conducted, retrieving 74 possible articles, but all were excluded, primarily because they did not occur in rural settings. The selection process resulted in 13 articles meeting the inclusion criteria (representing 10 separate programs). See Figure 1 for an overview of the search process.

Charting the data: Key information about the included articles was charted (including information on context, recipients, intervention and ongoing support, and peer leader information) and reviewed to identify key themes across the programs using a qualitative content analysis approach.

Collating, summarizing and reporting results: Preliminary analysis of included articles occurred and was shared at a national conference and with community partners.
Consultation: The topic of peer support in rural communities was first identified by community partners in the context of a collaborative research project that aimed to support people living with chronic conditions to become actively engaged in their communities. This collaborative research project took place in the south shore of Nova Scotia, which comprises many rural communities. The final consultation with community partners included review of the findings in light of their local context.

Ethics approval

According to Dalhousie University’s Research Ethics Board, ethics approval is only required when there are human subjects involved, which is not the case in a scoping review.

Results

Based on the 13 articles that met the inclusion criteria, the key features and formats of rural peer support programs for people with chronic conditions were identified. The study descriptions are briefly summarized in Table 1 to provide a general overview of the range of literature available in this field. This is followed by a synthesis of the programs’ peer leader roles and support, content of programs and key elements, and issues related to program implementation and sustainability. Considerations in designing peer support in rural areas form the results of this scoping review.

Study descriptions

Seven of the 10 included programs were located in the USA, two were from Australia and one from Canada; all were in self-identified rural areas as is shown in Table 1. Half of the programs (five) focused on diabetes education. Of the remaining programs, two targeted people with multiple chronic conditions, one focused on mental health and one addressed risk for cardiovascular disease. Three programs targeted women specifically and two targeted distinct cultural groups (African Americans and American Indians). A range of formats was used in the initiatives, with four programs using telecommunications only (including one or more of the following: websites, discussion boards, emails, telephone and/or telehealth), four using in-person meetings only and two combining telecommunication and in-person.

Peer leader roles and support

Peer leaders in the included programs had varied experiences with chronic conditions. Some peers had the shared experience of the same chronic condition as those targeted by their initiative, while others shared the general experience of having a chronic condition. Other peer leaders had family members/close friends with the condition or had a shared risk of the condition based on shared social characteristics or culture. All studies except one provided training to peers but not to the program participants; the exception was the Women to Women project.

Figure 1: Overview of search process.
Within programs offering peer training, peers were trained to use computer/telecommunications or a website, provide educational information about conditions and/or management of conditions, encourage physical activity training, and provide information about local resources. Some programs also provided training on how to engage with participants, in addition to the content of interactions: ways to motivate others, teaching others to problem solve, and providing non-directive support. Peers were involved in research of the program in one project and thus provided training to peers on collecting data for the project and ethical treatment of research participants.

Programs with ongoing support for peer leaders included mechanisms such as regular meetings for peer leaders, remuneration, rewards and/or recognition for leading, flexible scheduling and breaks from leading, and finding ways to streamline paperwork. Some studies commented specifically that the long-term success of the program would depend on the continued action of peer leaders beyond the duration of the immediate project. Peer leaders were noted to be susceptible to burnout.

### Content of programs and key elements

Information on the chronic condition was provided to program participants in all 10 programs. The majority of the programs explicitly provided general social support to participants and developed new skills. Examples of skills that were taught/developed included using a computer to assess health information, preparing meals, improving self-management skills, goal setting and problem solving and general skills to promote lifestyle changes. Six programs tracked or promoted physical activity and three monitored diet/weight loss.

Promoting social connectedness, reducing stigma, resonance and empowerment were also key features of these programs, in addition to skill development. As it relates to promoting social connections, several studies reported that participants valued the sense of feeling connected to others. In some cases, the social contact specifically motivated participants to complete or participate in program activities.

In recognition of the possibility that stigma may play a role in program participation, programs provided strategies to mitigate stigma, including use of telecommunications with de-identification processes in place, such as passwords and pseudonym usernames; holding face-to-face meetings in places available to a variety of populations (eg community centres, churches); and not labelling interventions as specifically just for people living with chronic disease.

Studies note the important role of the peers in translating information to participants in ways that make sense to them, and/or to match the culture, world view and/or value system of participants. Again, this is noted as a crucial strategy for marginalized populations or populations sharing a particular culture. The importance of participant empowerment in study design or in effecting change was noted in a number of studies. The significance placed by participants on making a meaningful contribution to the process and/or to be able to reciprocate by helping others was noted in some studies.

### Program implementation and sustainability

In addition to peer leaders’ support, a number of approaches were taken to enhance recruitment, implementation and sustainability of the programs. Several programs used mass media campaigns as a way to recruit participants. Zimmermann et al note that mass media campaigns are especially good for rural areas as costs are lower in these areas than in urban areas, and are effective at reaching a dispersed population. Meaningful goal setting contributed to motivation for physical activity; however, being able to set own goals was reported as more relevant. In one study, goals set in person with peer support were followed up via weekly and then monthly telephone calls, illustrating how telecommunications can allow for longer term support. Studies that utilized telecommunications as part of the intervention often provided technical support services to ensure effective use throughout the program.
Table 1: Program descriptions and target groups

<table>
<thead>
<tr>
<th>Reference(s)</th>
<th>Program setting</th>
<th>Description and target group</th>
</tr>
</thead>
<tbody>
<tr>
<td>[15]</td>
<td>Rural Illinois, USA</td>
<td>SSWICH: 12-week education program, peer support and media campaign aimed at women at risk of cardiovascular disease</td>
</tr>
<tr>
<td>[22, 26–28]</td>
<td>Small towns in Montana, Idaho, North and South Dakota and Wyoming, USA</td>
<td>Women to Women: 5-month web-based, asynchronous support program for women with diabetes</td>
</tr>
<tr>
<td>[23]</td>
<td>Rural midwest, USA</td>
<td>Logging on to lose weight: website peer support program for women aiming to lose weight</td>
</tr>
<tr>
<td>[24]</td>
<td>Rural Alabama, USA</td>
<td>Recipe for Health: faith-based, in person education to people living with Diabetes</td>
</tr>
<tr>
<td>[25]</td>
<td>American Indian reservations in Nebraska and South Dakota, USA</td>
<td>Talking Circles: Use of native American cultural approaches to facilitate in-person discussions with people with diabetes</td>
</tr>
<tr>
<td>[29]</td>
<td>Rural Maine, USA</td>
<td>Move More Diabetes: Use of social marketing strategies and peer support (face-to-face, web-based, telephone) to encourage 150 min/week of activity amongst people living with diabetes</td>
</tr>
<tr>
<td>[30]</td>
<td>Australia</td>
<td>e-Hub: Provision of web-based information/resources and online peers support to people living with mental illness</td>
</tr>
<tr>
<td>[31]</td>
<td>USA</td>
<td>Intervention mapping: Peer advisor conducts an in-person needs assessment then follows up with weekly telephone support to people with diabetes</td>
</tr>
<tr>
<td>[32]</td>
<td>Rural northern Ontario, Canada</td>
<td>Six-week CDSM program offered via telehealth for people with a range of conditions</td>
</tr>
<tr>
<td>[33]</td>
<td>Urban and rural areas of Queensland, Australia</td>
<td>In-person CDSM program for people with a range of conditions</td>
</tr>
</tbody>
</table>

CDSM, chronic disease self-management

During design and implementation, several studies commented specifically that consulting with local leaders/members of the community during the design phase was crucial to the success of the program. Building on extant resources in the community further achieved involvement of the local community. Specific resources may include existing organizations or networks, physical infrastructure such as walking paths and gyms, or telehealth equipment at local hospitals. This is especially true of communities comprising mainly vulnerable or marginalized populations. One study noted the need for timelines long enough for the program to be effective.

Outcomes

Of the nine studies that reported on program outcomes, eight reported positive outcomes with one study reporting mixed results. Overall program success, participants valuing the
social aspects of the programs, improved activity or weight loss, and participants feeling increased feelings of efficacy were the related positive outcomes reported.

Discussion

There is a need for low-cost and sustainable interventions that meet the unique needs of people living with chronic conditions in rural regions; peer support interventions seem to be a potentially viable option. The authors sought to understand the characteristics of peer support interventions intentionally designed for delivery in rural contexts through a scoping review. Consistent with the extant literature, all the initiatives identified unique issues faced by people with chronic conditions in rural areas that their program identified as important to recognize and address, including lack of access to basic health services\textsuperscript{22,26-28,31}, lack of appropriate places to exercise\textsuperscript{29}, lack of access to fresh food\textsuperscript{15}, and/or increased levels of social isolation\textsuperscript{22,26-28,31}.

The programs were also designed to consider the cultural context (wherein people may want to access local networks instead of formal programs), rural people’s capacity to travel distances to meet or to absorb other costs that could inhibit participation\textsuperscript{22,26-28,31}, and the time commitment required by participants to be involved in the study\textsuperscript{22,26-28}. Use of telecommunications appeared to be especially useful to alleviate problems associated with distance and isolation in rural areas\textsuperscript{22,26-28,30,31}. In particular, the flexibility in scheduling allowed by asynchronous chat/email was considered very valuable to rural users with limited time\textsuperscript{22,21,26-28}. A final issue noted as a unique challenge in rural contexts was the difficulty of achieving anonymity in small communities and its possible negative effect on program participation\textsuperscript{25}.

Limitations

An examination of the research and evaluation methods of the programs included within the review is not a focus for a scoping review; thus the studies included were primarily supported by descriptive results and satisfaction surveys, which limits transferability of findings. Further research and/or evaluation of peer support interventions is required to move beyond program satisfaction surveys to identifying factors that consistently contribute to the successful implementation of programs that effect meaningful change in the daily lives of participants living in rural contexts.

Based on the populations served by the included studies, the findings of this scoping review are not applicable in lower income, developing countries as these were excluded because of significant differences in health and contextual factors compared to the context of interest, rural Canada. Finally, ambiguity pertaining to some of the key search terms, such as ‘peer’, and limited details provided regarding the rural nature of program contexts (eg some telephone peer support programs did not indicate if they were in rural or urban areas) may have excluded relevant studies.

Implications

The following summary consists of four key implications for research and practice yielded from this scoping review regarding peer support in rural areas for people living with chronic conditions:

- A combination of telecommunications – telephone and online supports – with some face-to-face meetings can support the accessibility of peer support programs in rural areas. Diversity of formats can assist in meeting diverse learning styles as well as challenges with transportation in these contexts.
- A core element of peer support programs for people with chronic conditions in rural areas is the provision of social support and skill development, in daily activities, health information and self-management strategies. How this material is presented is important in promoting its relevance, acceptability and usefulness to participants. Strategies to mitigate perceived stigma associated with having a chronic illness need to be considered, as do strategies for promoting participant
involvement in effecting change and being valued contributors to the process.

- The training of peer supporters in skills including using telecommunications, sharing chronic condition management strategies and providing information about local resources is important as is training in how to engage participants with the material (eg ways to motivate others, teaching problem solving). Central to peer supporters being able to do their work is the provision of ongoing support (eg meetings, recognition) to them. This is consistent with peer support leader training (not specific to rural areas), which emphasizes the importance of systematic training of leaders.

- Sustainability of such programs is complex and requires broad mass media campaigns, meaningful goal setting, consultation with local leaders, building on existing resources, ongoing technical support and reasonable timelines that allow for these connections to be fostered. The development of peer support initiatives must take into account local cultural values and beliefs. This pertains to different ethnic groups, but also to particular cultures and ways of interacting that may be unique to rural communities. For example, rural communities may have more informal ways of providing general support to community members in ways that are considered acceptable (eg informal networks for checking on those who may need help with snow clearing or during particularly poor weather), and it is possible that better understanding of these informal networks could inform ways to strengthen formal peer support in these communities.

The scoping review findings can also be used to inform ongoing discussions with community partners as the authors collaboratively explore the potential role of peer support in their local Nova Scotian context.

**Potential areas for further research**

Beyond the findings about program structure and content, this scoping review also highlights a number of areas that require further exploration. One notable challenge encountered by the research team when conducting this review was variability in definitions of ‘peers’. Even in the included studies, variations in experience with chronic conditions (eg lived experience with a chronic condition versus being a family member of someone with a chronic condition) are evident. Further clarity on these definitions coupled with research on the implications of different peers is called for. What are the benefits or potential drawbacks of training peers with chronic conditions themselves, versus peers who primarily have experience in supporting a family member? In rural contexts where populations are sparse, might greater flexibility in this definition be necessary to meet the needs of peer support? More research on how peers are defined and what is realistic in rural settings is required.

The impact of age and gender on the development, implementation and evaluation of peer support programs in rural areas has not been thoroughly explored. We know that gender impacts health behaviors, access to services, social participation and activity choices, among other considerations. These are all relevant to peer support programs in rural areas that aim to increase social participation and health, thus a gender analysis of program participation would be helpful in identifying effective supports distinguished by gender. Similarly, factors such as age and ethnicity also affect participation and should be specifically examined.

While the programs in this scoping review illustrate a range of combinations of teleconference and face-to-face interactions, factors to consider in determining a reasonable array of communication strategies within a particular rural community have not been explored. What has to be accounted for when determining the type and frequency of peer interactions in a rural setting and what is the most appropriate balance of these?

The issue of sustainability was discussed in most of the included programs. Cherrington et al. point specifically to the lack of studies investigating how to sustain programs beyond the life of the study, particularly with regard to peer
leadership. Communities will have to consider whether peer leaders will have the continued interest and/or stamina to sustain the program through time. A potential solution is to build the capacity of peer leaders to teach others to become peer leaders\(^\text{24}\). Further exploration of this ‘training of trainers’ model and ways to best support it may be particularly relevant to rural communities with lower population densities.

As researchers with clinical backgrounds in occupational therapy (HL) and recreational therapy (SLH), the authors were intrigued that some of the programs particularly noted the importance of meaningful activities, some of which were recreational in nature. Building on the notion of sustainability, the authors proposed that theories from occupational science\(^\text{15}\) and leisure studies\(^\text{16}\), as well as the practical involvement of occupational therapists and recreational therapists in such peer support programs, may make a positive contribution to the sustainability of peer support programs by emphasizing linkages with local recreational programs and other opportunities for community participation (eg volunteering).

Conclusions

The findings of this review suggest areas to be discussed if a rural community is considering how to plan, implement and evaluate peer support. Diversity of formats (eg combinations of telephone and online supports), strategies to ensure material is presented in relevant ways and the training of peer supports are key elements of any program. However, further research is required to explore the quality of programs and the effectiveness of their outcomes. Although further research is required, the results of this scoping review do provide a basis for potential conversations with community partners. Based on the findings of this scoping review, potential questions to guide community discussions regarding peer support may include:

- What are key context considerations in our local community, like culture, transportation and available resources?
- How will we define ‘peers’ based on the needs of the community and the resources/experiences available?
- In our local context, what are the advantages and disadvantages when considering different formats for peer support (eg prevalence of internet access in homes, general comfort with technology within the community, size of the community and people’s desire for anonymity regarding their health concerns)?
- What relevant community resources and community leaders should we build upon and consult with?
- What types of training and support will be provided to peers and participants?
- What are locally relevant ways to ensure resonance, empowerment, sense of connection and reciprocity within peer support?

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References


Appendix I: Example search strategy

PubMed search strategy, peer support concept

1. “Self Help Groups” [MeSH]
2. “Peer Group”[MeSH]
3. “Voluntary Workers”[MeSH]
4. psychosocial care[tiab]
5. self help group*[tiab]
6. peer support [tiab]
7. therapeutic social club*[tiab]
8. support group*[tiab]
9. peer advoca*[tiab]
10. peer mentor*[tiab]
11. peer network*[tiab]
12. peer advisor[tiab]
13. peer consultan*[tiab]
14. peer leader*[tiab]
15. peer to peer*[tiab]
16. peer tutor*[tiab]
17. peer instruct*[tiab]
18. peer facilitat*[tiab]
19. lay led*[tiab]
20. lay run*[tiab]
21. lay expert*[tiab]
22. lay worker*[tiab]
23. lay person*[tiab]
24. lay advisor*[tiab]
25. lay consultan*[tiab]
26. lay leader*[tiab]
27. lay educat*[tiab]
28. lay tutor*[tiab]
29. lay instruct*[tiab]
30. lay facilitat*[tiab]
31. expert patient*[tiab]
32. layperson*[tiab]
33. voluntary worker*[tiab]
34. volunteer worker*[tiab]
35. trained volunteer*[tiab]
36. volunteer aide*[tiab]
37. user led*[tiab]
38. mutual aid*[tiab]
39. OR 1-38
40. "Rural Population”[MeSH]
41. "Rural Health Services”[MeSH]
42. "Rural Health”[MeSH]
43. "Medically Underserved Area”[MeSH]
44. rural[tiab]
45. remote area*[tiab]
46. remote region*[tiab]
47. nonurban[tiab]
48. non-urban[tiab]
49. non-metropolitan[tiab]
50. nonmetropolitan[tiab]
51. remote communit*[tiab]
52. shortage area*[tiab]
53. OR 40-52
54. "Chronic Disease"[Mesh]
55. "Neurodegenerative Diseases"[Mesh]
56. "Mental Disorders"[Mesh]
57. "Cardiovascular Diseases"[Mesh]
58. "Arthritis"[Mesh]
59. "Obesity"[Mesh]
60. "Cerebrovascular Disorders"[Mesh]
61. "Acquired Immunodeficiency Syndrome"[Mesh]
62. "HIV"[Mesh]
63. "Diabetes Mellitus"[Mesh]
64. chronic*[tiab]
65. persisten*[tiab]
66. "long term" [tiab]
67. ongoing[tiab]
68. continu*[tiab] degenerative[tiab]
69. OR 64-68
70. disease*[tiab]
71. illness*[tiab]
72. condition*[tiab]
73. disorder*[tiab]
74. syndrome*[tiab]
75. sickness*[tiab]
76. OR 70-75
77. 69 AND 76
78. diabet*[tiab]
79. obes*[tiab]
80. hypertensi*[tiab]
81. "high blood pressure" [tiab]
82. arthrit*[tiab]
83. HIV[tiab]
84. AIDS[tiab]
85. "human immunodeficiency virus" [tiab]
86. "acquired immunodeficiency syndrome" [tiab]
87. stroke*[tiab]
88. "cardiac disease" [tiab]
89. "cardiovascular disease*[tiab]
90. Schizophreni*[tiab] depress*[tiab]
91. "bipolar disorder" [tiab]
92. "manic depression" [tiab]
93. "manic-depression" [tiab]
94. OR 54-63
95. OR 78-93
96. 77 OR 94 OR 95
97. 39 AND 53 AND 96