# Action research in the healthcare field: a scoping review

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### ABSTRACT

**Objective:** This scoping review aimed to explore international literature related to the application of action research in studies in the healthcare context.

**Introduction:** Action research is an approach that involves collaboration to develop a process through knowledge building and social change. Several viewpoints of action research have been introduced as the different traditions of developed action research. To develop a coherent process, researchers have to posit their worldviews and theoretical framework and align these with the research aims and procedures, and local transformation needs. This diversity leads to a variety of action research practices in healthcare. Particularly, in this review, we raised the need for examining participants' experiences and changes related to the action research process.

**Inclusion criteria:** This scoping review considered studies that included any professional healthcare provider, patient or recipient of healthcare products or services involved in action research. Studies that used the action research methodology in the healthcare context were included. All quantitative and qualitative studies were considered. The quantitative component considered experimental and epidemiological studies, whereas the qualitative component considered studies do qualitative data.

**Methods:** A three-step search strategy was used in this review. MEDLINE, CINAHL, Web of Science, Social Sciences, ERIC, PsycINFO, Health Source, ScienceDirect, Wiley and SciELO databases were searched with no publication date limitation. Studies published in English, Portuguese and Spanish were included. The data were extracted using a charting table, which was developed to record key information from sources relevant to the review question. The findings were descriptively presented, with tables and figures to support the data when appropriate.

**Results:** We included 124 studies with different aims and procedures. The levels of participation ranged from no real input into or influence on the research process to democratic knowledge sharing and collective understanding. The action research processes occurred in diverse settings in the healthcare context, and participants with different objectives and demands took part in the research.

From study objectives, knowledge building, and social change data, we developed three domains and categorized the studies. In general, Europe and Australia published more studies in the organizational domain and mainly had healthcare stakeholders as participants. North America published more studies in the individual domain, and Latin America, the continent with a higher percentage of publications, published studies that were more frequently related to the collective domain. Asia and Africa did not have a consistent number of publications. There was a major repercussion on the health promotion perspective in North America and Latin America.

**Conclusions:** There are several ways of conducting action research in healthcare that consider the researcher's aims and theoretical assumptions. Further qualitative systematic review questions may arise from the results and conclusions of this scoping review.

**Keywords** Action research; community-based participatory research; knowledge building; participation; participatory research

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### Introduction

A ction research has been scrutinized by many researchers all over the world and is now a component of many participatory inquiries. Kurt Lewin first coined the term in the 1940s,<sup>1,2</sup> and later in the 1970s, action research was influenced by different traditions and began evolving in many fields of knowledge.<sup>3,4</sup> Nowadays, it is recognized as effective in knowledge sharing, promoting change and problem-solving<sup>5</sup> in participatory research processes.

Action research principles have been discussed by many authors, generating a range of propositions.<sup>6-9</sup> We advocate that there are four main principles that remain intact in every form of action research that unfolds, such as participatory action research, community-based participatory research, rapid rural appraisal, etc. These principles are: i) participation and collaboration (even though different levels of participation are assumed)<sup>10</sup>; ii) a cycle of planning, action, observation and reflection; iii) knowledge building that considers participants' realities; and iv) social change and problem-solving.<sup>11</sup> Researchers may choose a variety of methods, techniques and strategies to address the principles and ensure a participative, reflective and transformative process in which every person involved has the chance to share and contribute their knowledge and experiences. In addition, the action research process must be adapted to the context in which the research takes place.6,7

Besides having common principles, there are multiple stances regarding action research in relation to the level of participation, understanding of the methods and methodology, and research aim. These stances are the consequences of action research traditions established in the 1970s, particularly as northern and southern traditions of action research.<sup>3,11</sup>

Some specialists state that action research consists of a family of approaches<sup>12</sup> and is oriented towards inquiry,<sup>13</sup> thus it lacks previous theoretical underpinnings. Having an orientation towards inquiry is influenced by the northern tradition, which is more pragmatic. When used this way, action research becomes a research method for data collection and procedures.<sup>14,15</sup> Therefore, research aimed at solving an organizational problem, presenting content/theories/protocols and developing a paradigm for the standard way to act or do

something will preferably employ action research. The USA, Canada, European countries and Australia tend to carry out participatory research to address a practical problem such as the lack of sustainable resources in a hospital,<sup>16</sup> occupational health safety issues,<sup>17</sup> and concerns regarding clinical practice.<sup>18</sup>

On the other hand, specialists using action research as a methodology point to specific methods and strategies in the research design.<sup>14</sup> The methodology relates to the epistemological and theoretical perspectives assumed by the researcher and are driven by the research aim. This is the southern tradition of action research that aims to transform society by embedding political and social elements, with its central themes being power relations, social inequalities and disparities, and striving for rights and awareness.<sup>19</sup> Thus, a critical sociological understanding is needed to explain health status, epidemiological profiles and labor processes.<sup>20</sup> Instead of solving pragmatic problems, this type of action research seeks to explore complex social problems that involve policies and social relations.

Action research carried out in developing countries is supposedly guided by the southern tradition due to the nature of the methodology. Its goal is emancipation through critical consciousness and social justice. Therefore, from a philosophical perspective, the methodology falls under the critical paradigm. There are also differences among researchers who share the southern tradition, since the critical paradigm encompasses a range of approaches. It is notable that the deeper the understanding of health inequalities, the more comprehensive the proposal for action. Complex social problems may be addressed in the action research process, such as training Indigenous youngsters to become health educators,<sup>21</sup> recognition of a territory's social needs, and development of actions to address these needs<sup>22</sup> as well as approaches to integrate workers, the health system and environmental health.<sup>23</sup>

Despite the variations in the northern and southern action research traditions, research has extended to incorporate multiple possibilities. However, regardless of the origin and aims of the research, it must be aligned with the theoretical underpinnings and methodological assumptions, and researchers need to adopt a coherent approach to their inquiry. Consequently, action research in developing countries is largely influenced by the northern tradition, and developed countries might adopt the southern tradition of action research for primary research as well. As varied problems exist in healthcare contexts, action research propositions might address local needs. More important than determining which tradition underpins the action research is choosing which action research proposition is better suited to each research aim, objective and theory in order to build a coherent research framework.<sup>14,24</sup>

Other previous reviews of action research also exist. Waterman *et al.*<sup>25</sup> carried out a systematic review regarding efforts in the healthcare field in the United Kingdom to define action research, identify and analyze the publications in the country, and develop a guide for action research proposals. Viswanathan et al.<sup>26</sup> used the definition of communitybased participatory research examining conceptual studies in a systematic review. Boote et al.27 reviewed primary studies as they were interested in participants' collaboration in healthcare research published from 1995 to 2009. Although reviews of action research have been carried out, none of them investigated and synthesized how researchers have been using action research principles in primary studies. The JBI Database of Systematic Reviews and Implementation Reports and the Cochrane Database of Systematic Reviews were searched to check if other scoping reviews on this topic had been conducted.

We advocate the relevance of action research to promote social change, which is fundamental to healthcare, where the health-illness process is widely known to be influenced by social groups and how they work and live.<sup>28</sup> Thus, this scoping review shows that action research might be developed by several perspectives both philosophically and methodologically. Before providing empirical interventions, the researcher's main task is to align their worldview and a consistent theory with the local needs and research objectives. These elements will shape the research practice and ensure the quality and scientific rigor of action research, thereby providing more reliable findings that might be useful for evidence-based healthcare practice and the continuous development of action research.

## Objective

This scoping review sought to explore the international literature related to how action research has been applied in studies in the healthcare context. Specifically, the review intended to show the extent to which study participants were engaged in the research process and describe how research objectives, knowledge building and social change were embedded in action research studies.

### **Inclusion criteria**

### Participants

This review considered action research-based studies that included any professional healthcare provider, patient or recipient of healthcare products or services in this field.

### Concept

The concepts of interests were the description of the action research objectives as well as its procedures, that is, the operationalization of action research. Within literature, various terms, such as "participatory action research", "community-based participatory research", "rapid rural inquiry" and others have been used interchangeably with minor differences to define a participative cyclical research process that generates knowledge and changes in practice. For the purpose of this review, we included primary study processes based on researchers' propositions regarding prominent action research, which described the level of participation and participants' engagement, the process of knowledge building, and transformations in practice.

### Context

This scoping review considered action research studies in any healthcare setting, including social settings where healthcare services were provided, such as nursing homes, schools, working environments, etc.

### Types of sources

This scoping review included all qualitative and quantitative primary studies that met the inclusion criteria for participants, concept and context.

### Exclusion criteria

Studies that lacked information and descriptions on data extraction that prevented us from completing

the data extraction chart, and articles on studies that were only partly based on action research principles were excluded. These exclusion criteria were adopted because the lack of information regarding the entire action research process prevented the analysis of the rationale for the studies, procedures and/or the study aims in relation to categorization of the studies, which was done through data extraction.

### Methods

### Search strategy

The search strategy was developed with the assistance and guidance of a library scientist. Due to the considerable amount of publications about action research, the search strategy was designed to find only published research articles.

The search strategy and the entire review process was based on the Joanna Briggs Institute scoping review methodology.<sup>29</sup> Therefore, a three-step search strategy was used in this review. An initial limited search in MEDLINE and CINAHL was undertaken followed by an analysis of the titles, abstracts and index terms used to describe the articles. A second search using all identified keywords and index terms was then carried out on all included databases. Third, the reference lists of all identified reports and articles were analyzed for additional studies. Studies published in English, Spanish and Portuguese were considered. These languages were included as 90% of the scientific research is in English, and there are influential authors in participatory research from Latin America, for example, the Brazilian Paulo Freire and others.

There was no date limit for the search. The search databases included MEDLINE, CINAHL, Web of Science, SOCIAL SCIENCES, ERIC, PsycINFO; Health Source: Nursing/Academic Edition; Science-Direct, Wiley, and SciELO.

The initial keywords included:

- action research, community-based participatory research, community-based action research, participatory research, mutual inquiry, feminist participatory research, community-partnered participatory research, collaborative research, cooperative inquiry, participatory rural appraisal, participatory learning research;
- health-care disparities, social change, social justice, social transformation, health inequality\*,

inequality<sup>\*</sup>, social participation, collaboration, problem solving, capacity building

method\*

Databases were searched from February 27 to March 25, 2015 and updated from May 30 to June 17, 2016. Two reviewers were involved in the selection of studies.

### Extraction of results

Data were extracted using an instrument developed according to the proposed scoping review protocol.<sup>11</sup> Charted information comprised:

1. Authors

Citation details included the last name of the authors (Vancouver referencing style).

- 2. Study title
  - Cited exactly as published.
- 3. Year

Year of the paper publication.

4. Country/city of origin/context

The research location was provided when relevant to other data extraction items. Research setting/context was provided (e.g. primary healthcare, community level, hospital ward, maternity, school, etc.).

5. Study objective

A clear description of the study's objective was stated. In some cases, it was not presented in the paper, in which case we defined the objective based on the results and study considerations.

6. Research approach

Since action research is a family of approaches and its terminology may vary according to the influencing tradition, the studies' approaches were stated (e.g. action research, participatory action research, community-based participatory research, cooperative inquiry, etc.).

7. Cited principles

The "Background" presented in our scoping review protocol guided the extraction of action research principles described in each of the study's method/methodology (participation/ collaboration; a cycle of planning, action, reflection and observation; knowledge building; social change/practice transformation).

8. Cited authors

Due to different traditions and effects of action research, prominent scholars cited in the studies were presented.

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9. Action research cycle

Action research phases (planning, action, reflection, and observation) described in the studies were indicated.

10. *Type of participation* There are different levels of

There are different levels of participation in action research. To classify the participants' engagement in the action research, we considered Cornwall's participation levels as follows:

- "Co-option: where token representatives are chosen but have no real input or power in the research process
- Compliance: where outsiders decide the research agenda and direct the process, with tasks assigned to the participants and incentives being provided by researchers
- Consultation: where local opinions are sought but outside researchers conduct the work and decide on a course of action
- Co-operation: where local people work together with outside researchers to determine the priorities of the research objective, with the responsibility remaining with outsiders for directing the process
- Co-learning: where local people and outsiders share their knowledge to develop a new understanding and work together to form action plans, with outsiders providing the facilitation
- Collective action: where local people set their own agenda and carry out the research in the absence of outside initiators and facilitators."<sup>10(p.96)</sup>

The most precarious levels of participation are co-option, compliance and consultation, while the most democratic levels are co-operation, co-learning and collective action.

11. Social change

Actions taken during the process and/or as a result of the action research were stated, which included changes in participants' practices, habits and behaviors, as well as transformations in the respective research setting.

12. Knowledge building

Knowledge shared, acquired and built in the action research process was provided. This included self-understanding, technical/ scientific information, group communication, agreement and consensus.

## Results

### Study inclusion

The search strategy identified a total of 1263 studies (Appendix I). After excluding 134 duplicate citations and 980 irrelevant studies (according to the inclusion criteria aforementioned), 149 studies were selected for full text examination to determine the relevance to our inclusion criteria. No articles were added by hand searching. Thereafter, 25 articles were excluded (Appendix II) since they did not meet the inclusion criteria. Finally, 124 articles were included (Figure 1 and Appendix III).

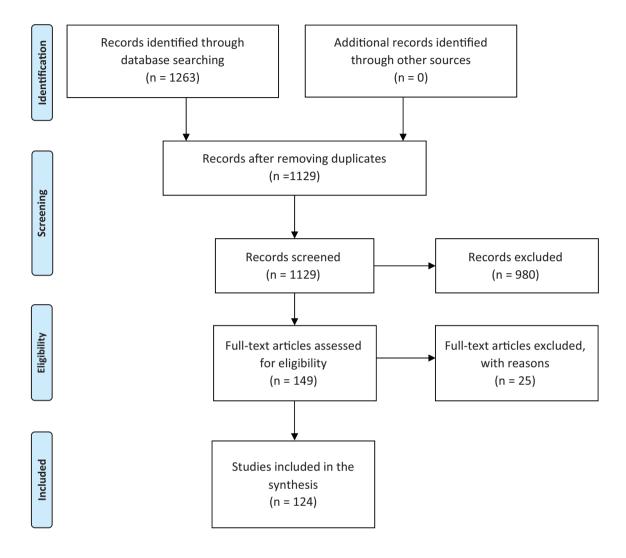
The included studies were published after 1996, and almost half of them were published from 2011 to 2016. Most of the studies were conducted in Latin America, followed by North America, Europe and Australia; Asia and Africa published fewer studies compared to other continents (Table 1).

Several action research studies conducted in America, Europe and Australia were cited. Likewise, some phases of the research cycle (planning, action, observation and reflection) were not congruent with the determined criteria or logic. Although every article included descriptions of the planning and action phases, only 40 of them included all the four phases.<sup>16-18,21-23,25,30-64</sup>

Participants included in these studies were classified according to their health status (ranging from those with acute, chronic and occupationrelated diseases or those at risk of developing them [classified in Table 1 as *disease risk people*]): social situation (minority groups, such as indigenous, refugees, immigrants, black and Latin people living in the USA, disabled people, women in disadvantaged situation, favela residents, and rural populations); involvement in healthcare provision: healthcare stakeholders, including healthcare professionals (both in healthcare services and schools, administration staff and decision makers, and grassroots leaders); and life stages (childhood, youth, old age, and pregnancy and breastfeeding).

Studies took place in different settings such as hospitals, other healthcare services (nursing homes; rehabilitation, mental health, HIV and cancer centers; disability organizations), primary healthcare and community centers, work environments (factories, restaurants and farms), daycare centers, schools and colleges.

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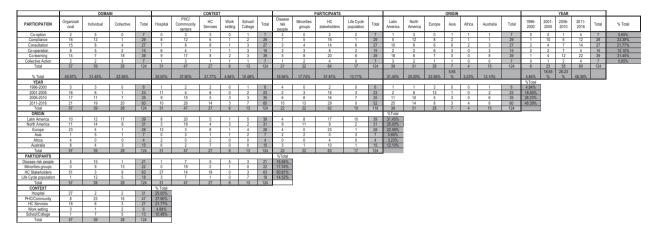


Source: Moher D, Libera\_ A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(6): e1000097.

### Figure 1: PRISMA flowchart of study selection and inclusion process

The results were presented by correlating data extraction information to demonstrate how action research methodology was applied in the healthcare context. We grouped all the studies by continents for a clearer presentation. Hence, based on studies' objectives, social change, and knowledge building descriptions, we categorized the publications into three domains (Table 1):

- Organizational: development of tools, knowledge and skills to enhance practices, capacities, communication and performance at work
- Individual: technical/scientific competence acquisition for habits/behaviorial change and health promotion
- Collective: collective engagement to benefit a group of people in a community (e.g. common area residents, Latin or Chinese people living in the USA, the black youth community) or people with similar needs and situations (e.g. Sudanese refugees, Brazilian immigrants living in Australia).



### Table 1: Results presentation by crossing categorized data collection

### Participation level

Guided by the conceptual framework for participation level,<sup>10</sup> the participation levels were extracted according to the description of the proceedings considered to develop the action research process. Almost one third of the publications used co-learning participation, which means that there was a consistent engagement of every person involved in action research processes. On the other hand, compliance and consultation levels of participation combined were responsible for 45% of participants' precarious engagement. In addition, there was the same number of studies with co-option and collective action levels of participation (seven), challenging action research democratic and collaborative principles (Table 2). When the participation level data were crossed with the research domains (organizational, individual and collective), organizational and individual domains were seen to have the poorest levels of participation, while the collective domain had the highest participant engagement (Table 3).

Another noticeable result was observed when we crossed the data on participation level with the continent of origin. Studies conducted in Latin America and Australia had higher levels of democratic participation in approximately half of their studies (colearning: 46% and 53%, respectively). Precarious participation levels (co-option, compliance and consultation combined) were observed in almost 70% of the studies in North America. Europe had a unique scenario; except for co-option and collective action,

	DOMAINS							
PARTICIPATION	Organizational	%Total	Individual	% Total	Collective	% Total	Total	Percentage
Co-option	2	3.5%	5	12.8%	0	0.0%	7	5.65%
Compliance	16	28.1%	12	30.8%	1	3.6%	29	23.39%
Consultation	15	26.3%	8	20.5%	4	14.3%	27	21.77%
Co-operation	8	14.0%	5	12.8%	2	7.1%	15	12.10%
Co-learning	14	24.6%	7	17.9%	18	64.3%	39	31.45%
Collective action	2	3.5%	2	5.1%	3	10.7%	7	5.65%
Total	57		39		28		124	
Percentage Total	45.97%		31.45%		22.58%			100%

Table 2: Participation levels in organizational, individual and collective domains

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	Latin America	% Total	North America	% Total	Europe	% Total	Asia	% Total	Africa	% Total	Australia	% Total	Total
Co-option	1	2.6%	3	9.7%	0	0.0%	1	14.3%	1	25.0%	1	6.7%	7
Compliance	5	12.8%	12	38.7%	8	28.6%	2	28.6%	1	25.0%	1	6.7%	29
Consultation	10	25.6%	6	19.4%	6	21.4%	0	0.0%	2	50.0%	3	20.0%	27
Co-operation	2	5.1%	2	6.5%	6	21.4%	3	42.9%	0	0.0%	2	13.3%	15
Co-learning	18	46.2%	6	19.4%	7	25.0%	0	0.0%	0	0.0%	8	53.3%	39
Collective action	3	7.7%	2	6.5%	1	3.6%	1	14.3%	0	0.0%	0	0.0%	7
Total	39		31		28		7		4		15		124
% Total	31.45%		25.00%		22.58%		5.65%		3.23%		12.10%		

Table 3: Participation level in the five continents

all other participation levels had a similar number of studies despite compliance being used more often. Asia was also peculiar in that, besides having only a few number of published studies (seven), 43% of these studies had the least democratic levels of participation (co-option, compliance and consultation combined), while 57% of these studies had the most participative ones (co-operation, co-learning and collective action combined). Therefore there was no clear demonstration of a participation level tendency in the studies carried out in Asia; this was indicated by the fact that the most frequent level is co-operation, wherein the action research process is directed by outsiders. Finally, the participation levels in the four African studies were poor.

### Action research in the continents

Latin America had primary healthcare/community level as a privileged context for action research

(51%). Healthcare stakeholders (44%) were the predominant participants, and the articles were more frequently published between 2011 and 2015. Brazil was responsible for 86% of the publications,<sup>21-23,25,26,30,34,36,43,45,52,59,60,62,63,65-79</sup> followed by Colombia,<sup>81-85</sup> Equator,<sup>84</sup> Dominican Republic,<sup>40</sup> Mexico,<sup>85</sup> Peru,<sup>86</sup> and Uruguay.<sup>87</sup> Such studies relied on democratic levels of participation more frequently than in any other continent (23 out of 39 articles) (Table 4).

However, this was not applied to studies classified in the individual domain, which constituted 75% of the precarious participative levels.<sup>25,36,45,65,67,68,</sup> <sup>70,74,75,77-81,85,86</sup> The participants of these studies were children and their families,<sup>25,77</sup> populations at risk of developing chronic diseases,<sup>65,78</sup> older people at risk of developing osteoporosis,<sup>67</sup> hemodialysis patients,<sup>36</sup> pregnant women,<sup>75</sup> and women at risk of HPV contamination.<sup>86</sup> Regardless of the

Table 4: Levels of participation in Organizational, Individual and Collective domains in Latin American
publications

	Organizational	% Total	Individual	%Total	Collective	%Total
Co-option	0	0.0%	1	8.3%	0	0.0%
Compliance	2	20.0%	3	25.0%	0	0.0%
Consultation	2	20.0%	5	41.7%	3	17.6%
Co-operation	2	20.0%	0	0.0%	0	0.0%
Co-learning	4	40.0%	3	25.0%	11	64.7%
Collective action	0	0.0%	0	0.0%	3	17.6%
Total	10		12		17	
% Total	25.6%		30.8%		43.6%	

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participation level and year of publication, every individual domain study was based on the health promotion perspective, which aimed at behavior/ habit change.

Almost half of the Latin America studies (44%) focused on the collective domain. Minorities (disabled people,<sup>77</sup> Indigenous<sup>63,76,84</sup> and *favela* populations<sup>26</sup>) and healthcare stakeholders<sup>21,23,30,58,62,72,76,82</sup> also participated in the studies. All studies took place in primary healthcare/community level services, except for two of them,<sup>23,72</sup> which were conducted in schools. Political and/or human rights issues were present in 70% of the collective domain studies.<sup>21-23,31,60,63,76,84</sup>

Participants in the organizational domain studies were healthcare stakeholders from primary healthcare services,<sup>43,71,73</sup> hospitals,<sup>66</sup> and nursing homes.<sup>78</sup> Sixty percent<sup>65,70,78</sup> of the organizational domain studies were interested in nursing processes and competencies.

The most frequent context for North American studies was primary healthcare/community (61%). Participants were mainly minority groups (35%), and studies were more often published from 2011 to 2016. There were 21 published studies from the United States of America<sup>17,42,48,49,88-104</sup> and 10 from Canada.<sup>35,64,105-112</sup>

Using more precarious levels of participation (78.6%) and having an exclusive primary healthcare/community as settings, almost half (45.2%) of the North American studies were classified into the individual domain (Table 5). Seventy-four percent of these studies were carried out on minorities, such as African Americans, <sup>90,101</sup> Latins, <sup>49,96</sup> Korean Americans, <sup>95</sup> and Indigenous/Aboriginals. <sup>97,109,110</sup> The aim of these studies was to promote screening for cancer <sup>93,101</sup> and vaccination, <sup>95</sup> and to change behavior/habits <sup>49,90,104,107,109,111</sup> to promote health.

Likewise, organizational domain studies also involved less democratic levels of participation (72.7%). Most of the participants were healthcare stakeholders from healthcare services,48,64,102 hospitals,<sup>88,101,102</sup> and primary healthcare/community level services.<sup>105,108</sup> Studies in the hospital context had less democratic participation levels,<sup>88,100,102</sup> as did other healthcare services studies,<sup>48,99,102</sup> except for a study in a mental healthcare unit that employed collective action.<sup>64</sup> The collective domain showed a different scenario because co-operation<sup>93</sup> and colearning<sup>20,91,92</sup> levels of participation were mostly used. Participants were mainly minority groups (Sudanese refugees,<sup>91</sup> African Americans,<sup>92,103</sup> immigrants,94 Indigenous people<sup>110</sup>), except for a study whose participants were healthcare stakeholders.<sup>35</sup> Two thirds of the total studies took place in primary healthcare/community level services,<sup>91,92,103,110</sup> one study was conducted in a school,<sup>35</sup> and one in a restaurant<sup>94</sup> (work setting). As in Latin American studies, collective domain studies aimed to propose and/or establish policies and political debates and actions,<sup>35,94,110</sup> and examine cultural and community resources<sup>91,92</sup> to promote awareness among participants regarding their rights and history.

In contrast to the other continents, most studies in Europe were published from 2001 to 2005. Eightytwo percent of the studies focused on organizational

	Organizational	% Total	Individual	% Total	Collective	% Total
Co-option	1	9.1%	2	14.3%	0	0.0%
Compliance	4	36.4%	7	50.0%	1	16.7%
Consultation	3	27.3%	2	14.3%	1	16.7%
Co-operation	0	0.0%	1	7.1%	1	16.7%
Co-learning	2	18.2%	1	7.1%	3	50.0%
Collective action	1	9.1%	1	7.1%	0	0.0%
Total	11		14		6	
% Total	35.5%		45.2%		19.4%	

 Table 5: Levels of participation in Organizational, Individual and Collective domains in North American publications

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	Organizational	% Total	Individual	% Total	Collective	% Total
Co-option	0	0.0%	0	0.0%	0	0.0%
Compliance	7	30.4%	1	25.0%	0	0.0%
Consultation	5	21.7%	1	25.0%	0	0.0%
Co-operation	5	21.7%	1	25.0%	0	0.0%
Co-learning	5	21.7%	1	25.0%	1	100.0%
Collective action	1	4.3%	0	0.0%	0	0.0%
Total	23		4		1	
% Total	82.1%		14.3%		3.6%	

 Table 6: Levels of participation in Organizational, Individual and Collective domains in European publications

demands, and hospitals were the most frequent setting for action research (43%). Two-thirds of the studies in Europe were carried out in the United Kingdom,<sup>16,38,39,47,54,57,109,111,114-124</sup> followed by Denmark,<sup>50,125</sup> Sweden,<sup>32,126</sup> Finland,<sup>58</sup> Ireland,<sup>127</sup> Jordan,<sup>40</sup> Norway,<sup>128</sup> Spain,<sup>40</sup> and Switzerland.<sup>129</sup>

A range of participation levels was used, despite compliance<sup>43,107,110,111,113,119</sup> being used more frequently (30.4%) (Table 6). Participants of the organizational domain studies were mostly healthcare stakeholders,<sup>16,32,38,39,44,47,50,54,58,114-117,121-129</sup> except for one study, which was conducted in a college<sup>120</sup>: wherein the participants were students with anxiety disorder, and another study which was carried out in a Danish industrial setting<sup>43</sup> with workers; both studies had less democratic levels of participation. Hospitals were the most common setting,<sup>16,32,44,47,54,112-116,123,124,126,129</sup> followed by other healthcare services, which used compliance<sup>117,128</sup> and consultation<sup>39,121,127</sup> levels of participations. Two studies were carried out in other healthcare services that were interested in evidencebased practice implementation<sup>99,122</sup> and used colearning as the participation level.

Four studies were categorized under the individual domain. Studies in the mental health area had more democratic participation levels (co-learning<sup>118</sup> and co-operation<sup>58</sup>), while the ones on primary healthcare<sup>5</sup> and a children's center<sup>113</sup> had healthcare stakeholders as participants and used compliance and consultation levels of participation, respectively. Therefore, unlike Latin and North America, individual domain studies in Europe did not indicate a tendency to have poor levels of participation.

Only one study with residents from a local house state – a community aiming to ensure sustainability and provide a more flexible resource to meet their needs using co-learning level of participation – was classified categorized under the collective domain.

Asian countries that published action research studies were China,<sup>71,130</sup> Thailand,<sup>57,131</sup> India,<sup>132</sup> Pakistan,<sup>133</sup> and Taiwan.<sup>134</sup> Prominent Asian research scholars of participatory research, such as Muhammad Rahman<sup>135</sup> and Rajesh Tandon,<sup>136</sup> were responsible for the conceptualization and dissemination of the southern tradition of action/participatory research. However, when the domain studies from Asian publications were compared with each other, no participation level tendency was found (e.g. in the individual domain, the participation levels in three studies were classified as cooperative and collective,<sup>51,131,133</sup> and that in two studies were classified as co-option and compliance<sup>130,132</sup>) (Table 7), reinforcing the results previously described.

The individual domain was predominant in the Asian studies (71%), and the most common setting was primary healthcare/community.<sup>51,133,134</sup> Other settings were school,<sup>130</sup> wherein children and adolescents were participants, and textile production centers<sup>131</sup> (work setting), with female weavers as participants; this was the only collective action level of participation in Asian studies. Low socioeconomic communities in Pakistan (minority group) were the participants of an individual domain study

	Organizational	% Total	Individual	% Total	Collective	% Total
Co-option	0	0.0%	1	20.0%	0	0.0%
Compliance	1	100.0%	1	20.0%	0	0.0%
Consultation	0	0.0%	0	0.0%	0	0.0%
Co-operation	0	0.0%	2	40.0%	1	100.0%
Co-learning	0	0.0%	0	0.0%	0	0.0%
Collective action	0	0.0%	1	20.0%	0	0.0%
Total	1		5		1	
% Total	14.3%		71.4%		14.3%	

 Table 7: Levels of participation in Organizational, Individual and Collective domains in Asiatic publications

that used the co-operation level of participation,<sup>133</sup> and migrant women (minority group) engaged in a compliance level of participation.<sup>134</sup>

In the exclusive organizational domain of an Asian study,<sup>130</sup> participants were healthcare stakeholders interested in making relevant changes in nursing practice through an educational program using the compliance level of participation.

There was one study based on the collective domain.<sup>37</sup> It was carried out on children and their families in a school setting, and used the co-operative level of participation to promote healthy eating and physical activities habits, apart from implementing school policies.

As aforementioned, Africa did not have a substantial number of publications (four). Studies from South Africa, <sup>137,138</sup> Rwanda, <sup>139</sup> and Uganda<sup>56</sup> were included. All studies predominantly fell under the organizational domain and had poor levels of participation (co-option, <sup>139</sup> compliance, <sup>56</sup> and consultation<sup>137,138</sup>) (Table 8). Two studies, published from 2011 to 2016, were conducted in hospitals<sup>56,137</sup> and two in other healthcare services (mental health service<sup>139</sup> and vocational rehabilitation service<sup>138</sup>). Participants of all studies were healthcare stakeholders.

Eighty percent of the Australian studies were published from 2008 to 2015. The majority of the Australian studies included healthcare stakeholders as participants (67%),<sup>18,46,53,55,61,112,140-144</sup> and more than half of the studies (53%) were in the organizational domain. These studies took place in

	Organizational	% Total	Individual	% Total	Collective	% Total
Co-option	1	25.0%	0	0.0%	0	0.0%
Compliance	1	25.0%	0	0.0%	0	0.0%
Consultation	2	50.0%	0	0.0%	0	0.0%
Co-operation	0	0.0%	0	0.0%	0	0.0%
Co-learning	0	0.0%	0	0.0%	0	0.0%
Collective action	0	0.0%	0	0.0%	0	0.0%
Total	4		0		0	
% Total	100.0%		0.0%		0.0%	

Table 8: Levels of participation in Organizational, Individual and Collective domains in African publications

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	Organizational	% Total	Individual	% Total	Collective	% Total
Co-option	0	0.0%	1	25.0%	0	0.0%
Compliance	1	12.5%	0	0.0%	0	0.0%
Consultation	3	37.5%	0	0.0%	0	0.0%
Co-operation	1	12.5%	1	25.0%	0	0.0%
Co-learning	3	37.5%	2	50.0%	3	100.0%
Collective action	0	0.0%	0	0.0%	0	0.0%
Total	8		4		3	
% Total	53.3%		26.7%		20.0%	

 Table 9: Levels of participation in Organizational, Individual and Collective domains in Australian

 publications

hospitals<sup>18,53,55,61,143</sup> and nursing homes or services.<sup>140,141,145</sup> All studies had healthcare stakeholders as participants, except for one study, which included older people in order to develop a framework to provide improved care.<sup>145</sup> Several levels of participation were used in these settings (compliance,<sup>141</sup> consultation,<sup>55,112,145</sup> co-option,<sup>53</sup> co-learning<sup>18,61,140</sup>) (Table 9).

Four studies fell under the individual domain<sup>144,146-148</sup> and healthcare services. The colearning level of participation was used in studies wherein the participants were mentally<sup>147</sup> or physically<sup>148</sup> disabled people. A study on asthmatic people<sup>142</sup> had the poorest level of participation, and the last one which included both nursing students and families at risk for illness as participants<sup>144</sup> used cooperation as the participation level.

Collective domain studies<sup>46,54,112</sup> used co-learning as the participation level. Healthcare stakeholders participated in two studies (hospital<sup>112</sup> and primary healthcare setting<sup>46</sup>), and Brazilians who immigrated to Australia participated in the last one<sup>62</sup> (community level setting).

## Discussion

This scoping review included 124 studies that used action research in the healthcare field. Publications have increased steadily since the 1990s, especially after 2000. All included studies were qualitative, although no study design limitation was stipulated in the search. Since this was a scoping review, no methodological appraisal was done. Only studies that used action research in healthcare and cited prominent scholars and studies that detailed the entire action research process were considered.

The extracted data was relevant to the review question, considering the level of participation, knowledge building and social change during the action research process. This data showed how action research had been used in the healthcare setting, taking into consideration the aims and theoretical assumptions of the studies. Through data extraction, we categorized the studies into three domains: organizational, individual and collective.

In general, individual domain studies had more precarious levels of participation; collective domain ones had more democratic levels of participation; and organizational domain studies had both. Organizational action research was more prominent in Europe and Australia, which was influenced by the northern tradition of action research. Despite a few studies published in Africa, all of the studies fell under the organizational domain. In contrast, Loewenson *et al.*,<sup>149</sup> supported by WHO and other organizations, conducted a participatory action research, based on a Methods reader to inform, motivate and strengthen its practice and address inequities in health. Methods reader refers to some studies that have described primary research processes using action research in Africa and Asia aimed at social justice and equality in power relations. Despite developing an extensive search strategy and searching several databases, our search for this scoping review could not find collective domain studies in Africa, and only a few were found in Asia. Our results have therefore been presented with caution, considering the chosen categories; in other words, we cannot make shallow assumptions about the presence or distribution of action research in these continents.

Individual and collective domain studies had a range of participants and aspects, such as minority groups (e.g. Latin Americans living in the USA, refugees, indigenous people), life stage populations (older people, children, young people, and women), and people with or at risk of developing acute or chronic diseases (such as diabetes and occupational diseases). In some cases, healthcare stakeholders were the participants of collective domain studies. In Latin America and North America, several studies concentrated on the individual domain. Latin America had more studies in terms of both percentage and absolute values regarding the collective domain due to the influence of the southern tradition of action research.

Regardless of the population specificity (e.g. school children, breastfeeding women, people with acute or chronic disease), individual domain studies aimed to foster behaviorial/habit change. Researchers based their action research process on the health promotion framework, which put individuals in charge of their own health<sup>150</sup> and considered the context/environment as one of the factors of illness acquisition. On the other hand, collective studies seemed to generate political discussions that made individuals aware of the needs and rights of the group they belonged to or were part of (e.g. favela residents, African American vouth and Indigenous groups). This is the outcome of collective studies that incorporated a political tradition in the healthcare field in Brazil and also in every Latin American country.<sup>20</sup> In many instances, critical epistemology underpinnings seemed to support collective domain studies, which pointed out to embed political and economic issues in the illness process.

Authors of prominent action research studies were one of the data to be extracted in primary studies. We expected that studies with similar aims would cite studies by certain authors. For example, organizational domain studies would be guided by European, Nordic and American action research authors while collective domain ones would fall under the assumptions of action research authors from developing countries. Nevertheless, this was not necessarily true. Researchers often cited studies of their fellow compatriots, regardless of the

author's epistemology or theoretical affiliation. Hence, action research authors who affirmed it as an approach rather than a methodology tended to be cited more frequently because their assumptions of methods were not based on any specific theory. In general, the studies did not clearly demonstrate a perfect alignment of theoretical assumptions with the selected methodology; there was a tendency to refer to mixed action research orientations in a single study.<sup>17,42,49,92,129,131</sup> There was no recognition of the epistemological differences between the action research traditions and often no clear disclosure of the key concepts in a context where it seemed to be enough to state the dominant theories and models. Researchers may use the action research *method* – as in the northern tradition- and the action research *methodology* – as in the southern tradition – interchangeably, integrating propositions with diverse aims and philosophical underpinnings.<sup>11</sup> In the case of not recognizing such misunderstanding, there is an imminent risk of employing co-optation action research methodology in healthcare, since the action research method tends to be oversimplified and substantiates pragmatic logic of the dominant science.

### Limitations of the review

Although most of the included studies were in English; there might have been studies in European, Asian and African languages that we were not able to read. The collection of included studies might have been different if studies published in other languages had also been included, which could have provided more diverse results and conclusions.

Moreover, our results presented general tendencies out of a spectrum of ways to conduct action research. It is conceived to be tailored according to local reality and needs, and there are several assumptions influenced by different traditions. Therefore, a universal guidance for action research is impossible.

We opted to exclude unpublished studies (gray literature) due to the satisfying number of the existing published studies. However, we consider that this is a limitation of the review and a deviation from the protocol.<sup>11</sup>

## Conclusion

In this review, we sought to map action research in the healthcare field. Because of the influence of different traditions and rapid spread of action research all over the world in several knowledge fields, we found different aims and procedures in action research studies in healthcare. Participation levels ranged from no real input or power in the research process to democratic knowledge sharing and development of collective understanding. Action research processes were carried out in diverse healthcare scenarios, which indicate that action research was useful in any context where there were organizational and/or political issues as well as to address the gaps in health education. Therefore, participants with different interests and demands were part of the research.

Based on the objectives of studies, knowledge building and social change data, we developed three domains to categorize the studies. In general, Europe and Australia published more organizational domain studies, with mainly healthcare stakeholders as participants. North America had more individual domain studies, and Latin America, the continent with a higher percentage of published studies, had studies that frequently focused on the collective domain. Asia and Africa did not have a consistent number of published studies, which can be attributed to the language inclusion criteria and other search strategies that made it difficult to retrieve articles.

The review addressed the initial questions regarding action research principles, such as participation, knowledge building and social change. The findings of this review raise questions for further qualitative systematic reviews and can help researchers to reflect on their own propositions and proceedings.

### Recommendations for research and practice

Recommendations for research and practice are presented together in this review since the examined concept (action research) integrates research and practice.

The objective of this scoping review was to map published literature related to healthcare that used action research. While a substantial number of studies describing the action research process have been carried out, there is the need to clarify the researchers' aims when using action research by choosing a coherent theoretical guidance provided by scholars with more pragmatic views. Equally, if they use action research as a methodology, the process will be organic and coherent when the research aims to support social change that fosters practices and political transformation at the micro or macro levels. Thus, a lucid theoretical position is essential in action research processes. Second, a wide scope of primary action research processes has already been elucidated as far as the lessons learned and personal reflections about them are concerned. In order to map the transformations and impact of action research on the participants and healthcare settings, a critical evaluation of the process is highly recommended. This might bring relevant contributions to improve action research in healthcare.

It should be kept in mind that democratic processes that engage participants from the beginning tend to result in more substantial changes and may improve the quality of the action research. Since the purpose of action research is to transform reality, regardless of the study domain (organizational, individual or collective), every participant should have control of the process as much as possible. Making collective decisions based on participants' intentions and needs will yield more effective and satisfying practical and significant results.

Qualitative systematic review questions may be derived from this scoping review. Building evidence on participants' behavioral changes through the action research process, with their experiences as part of the development, implementation of laws, or even the impressions of participants' realities before and after an action research takes place is recommended.

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## Appendix I: Search strategies, study identification and selection

Database	Search strategy	Records	Date	Update	Number of selected articles
CINAHL	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "participatory research" OR "mutual inquiry" OR "feminist participatory research" OR "community-partnered participatory research" OR "collaborative research" OR "co-operative inquiry" OR "participatory rural appraisal" OR "participa- tory learning research" (Keyword/MH/Subject) AND "healthcare disparities" OR "social transformation" OR "health inequality*" OR inequality* OR "social participation" OR Collaboration OR "problem solv- ing" OR "capacity building" AND Method* - Research	264+14- =278	Mar. 17, 2015	June 08, 2016	38
MEDLINE	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "participatory research" OR "mutual inquiry" OR "feminist participatory research" OR "community-partnered participatory research" OR "collaborative research" OR "co-operative inquiry" OR "participatory rural appraisal" OR "participa- tory learning research" (Keyword/MH/Subject) AND "healthcare disparities" OR "social transformation" OR "health inequality*" OR inequality* OR "social participation" OR Collaboration OR "problem solv- ing" OR "capacity building" AND Method*	236 + 33 - = 269	Mar.17, 2015	May 30, 2016	10
Health Source	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "participatory research" OR "mutual inquiry" OR "feminist participatory research" OR "community-partnered participatory research" OR "collaborative research" OR "co-operative inquiry" OR "participatory rural appraisal" OR "participa- tory learning research" AND "healthcare disparities" OR "social change" OR "social justice" OR "social transformation" OR "health inequality*" OR inequality* OR "social participation" OR Collaboration OR "problem solv- ing" OR "capacity building" AND Method*	86+46- =132	Mar.17, 2015	June 08, 2016	9
PsycINFO	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "participatory research" OR "mutual inquiry" OR "feminist participatory research" OR "community-partnered participatory research" OR "collaborative research" OR "co-operative inquiry" OR "participatory rural appraisal" OR "participa- tory learning research" AND "healthcare disparities" OR " social change" OR "social justice" OR "social transformation" OR "health inequality*" OR inequality* OR "social participation" OR Collaboration OR "problem solv- ing" OR "capacity building" AND Method* AND "public health practice" OR " health promo- tion" OR "health planning" OR "health education"	26+8=34	Mar.17, 2015	June 17, 2016	2

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(Continued)								
Database	Search strategy	Records	Date	Update	Number of selected articles			
ERIC	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "participatory research" OR "mutual inquiry" OR "feminist participatory research" OR "community-partnered participatory research" OR "collaborative research" OR "co-operative inquiry" OR "participatory rural appraisal" OR "participa- tory learning research" AND "healthcare disparities" OR "social change" OR "social justice" OR "social transformation" OR "health inequality*" OR inequality* OR "social participation" OR Collaboration OR "problem solv- ing" OR "capacity building" AND Method* AND "public health practice" OR "health promo- tion" OR "health planning" OR "health education"	22+1=23	Feb. 27, 2015	May 30, 2016	5			
Social Sciences	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "participatory research" OR "mutual inquiry" OR "feminist participatory research" OR "community-partnered participatory research" OR "collaborative research" OR "co-operative inquiry" OR "participatory rural appraisal" OR "participa- tory learning research" AND "healthcare disparities" OR "social change" OR "social justice" OR "social transformation" OR "health inequality"" OR inequality* OR "social participation" OR Collaboration OR "problem solv- ing" OR "capacity building" AND Method* AND "public health practice" OR "health promo- tion" OR "health planning" OR "health education"	5	Feb. 27, 2015		0			
ScienceDir- ect	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "participatory research" (Keyword) AND "healthcare disparities" OR " social change" OR "social transformation" OR "capacity building" – Nursing and health profession	54+4=58	Mar. 04, 2015	June 02, 2016	8			
Wiley	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "participatory research" OR "mutual inquiry" OR "feminist participatory research" OR "community-partnered participatory research" OR "collaborative research" OR "co-operative inquiry" OR "participatory rural appraisal" OR "participa- tory learning research" (Keywords) AND "healthcare disparities" OR "social change" OR "social justice" OR "social transformation" OR "health inequality"" OR inequality * OR "social participation" OR Collaboration OR "problem solv- ing" OR "capacity building" AND Method* AND "public health practice" OR " health promo- tion" OR "health planning" OR "health education" JOURNALS	252 + 47 - = 299	Mar. 04, 2015	June 07, 2106	30			

(Continued	(Continued)								
Database	Search strategy	Records	Date	Update	Number of selected articles				
Web of Sci- ence	"action research" OR "community-based participa- tory research" OR "community-based action research" OR "mutual inquiry" OR "feminist partic- ipatory research" OR "collaborative research" OR "co-operative inquiry" OR "participatory rural appraisal" OR "participatory learning research" AND "healthcare disparities" OR "social change" OR "social justice" OR "social transformation" OR "health inequality*" OR inequality* OR "social participation" OR " problem solving" OR " capac- ity building" AND Method* AND "public health practice" OR "health promo- tion" OR "health planning" OR "health education"	90+9=99	Mar. 25, 2015	June 08, 2016	8				
SciELO	"pesquisa-ação" OR "action research" - Área temática: ciências da saúde	306	June 08, 2016						

## Appendix II: Excluded studies and reasons for their exclusion

Reason	Study
The study does not describe the full pro- cess of action research or does not contain all needed information	<ul> <li>Aho AL <i>et al.</i> Development and implementation of a bereavement follow-up intervention for grieving fathers: an action research. J Clin Nurs. 2010; 20:408–419.</li> <li>Bish M, Kenny A, Nay R. Using participatory action research to foster nurse leadership in Australian rural hospitals. Nurs Health Science. 2013; 15:286–291.</li> <li>Brandão Neto W, <i>et al.</i> Violence in the eye of adolescents: education intervention with Culture Circles. Rev Bras Enferm. 2015;68(4):617–25</li> <li>Buranatrevedh S, Sweatsriskul P. Model of development for health promotion and control of agricultural occupational health hazards and accidents in Pathumthani, Thailand. Industrial Health. 2005; 43:669–676.</li> <li>Dowswell <i>et al.</i> The development of a collaborative stroke training programme for nurses. J Clin Nurs.1999; 8:743–752.</li> <li>Hoga LAK, Reberte LM. Action research as a strategy to develop pregnant woman group: the participants' perception. Rev Esc Enferm USP. 2007;41(4):559–566.</li> <li>Laperrier H. Evaluation of STD/HIV/AIDS peer-education and danger: a local perspective. Cienc Saúde Col. 2008; 13(6):1816–1824.</li> <li>Lorenzo IS <i>et al.</i> Community empowerment within health in three Cuban municipalities. Rev Cubana Med General Integral. 2013; 29(2):184–191</li> <li>Magalhães Z<i>et et al.</i> Some considerations concerning the human living process of recently hired nursing technicians in a university hospital. Texto Contexto Enferm, 2006; 15 (Esp): 39–47.</li> <li>Mills J, Fitzgerald M. The changing role of practice nurses in Australia: an action research study. Austr J Advanced Nurs. 2008;26(1):16–20.</li> <li>Monteiro MAA, Pinheiro AKB, Souza AMA. Support group: interpersonal relationships among puerpera with hospitalized newborn children. Acta Paul Enferm 2008;21(2):287–93.</li> <li>Moyer <i>et al.</i> Identifying people in need using action research. J Clin Nrs. 1999; 8:103–111.</li> <li>Oliveira <i>et al.</i> Communication within the context of user welcoming into a family health unit in São Carlos, São Paulo. Interf</li></ul>
It is not a primary study	• Kelly, Simpson. Action research in action: reflections on a project to introduce Clinical Practice Facilitators to an acute hospital setting. J Adv Nurs. 2001; 33:. 652–659
Case study overview	• Main <i>et al.</i> Taking Neighborhood Health to Heart (TNH2H): Building a Community-Based Participatory Data System. Preventing Chronic Disease. 2012;9: 1–8
Practice description	<ul> <li>Vasconcelos EM. Popular education as a tool for redirecting strategies to deal with infectious and parasitic diseases1998; 14(Sup. 2):39-57.</li> <li>Sousa EMS, Oliveira MCC. Live (and) to learn: an intervention for the active aging promotion. Rev. Bras. Geriatr. Gerontol. 2015; 18(2):405-15.</li> </ul>

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## Appendix III: Included studies and data extraction

Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Alvarado, Moreno, Rodriguez	Social inclu- sion and community participation: an alternative work in front disability.	2009	Latin Am Hc Serv	minorities	To develop and evaluate the per- ception of a pro- gram funded on a socioecological model with the community aim- ing to promote social inclusion of disabled people and their families concerning per- sonal, family and community devel- opment.	IAP	Pt SC	Freeman, 2007	Pl Act	consulta- tion	The personal, family and com- munity develop- mental gains were enabled due to the com- munity effort to build an inter- disciplinary model.	Recognition of the value and potentialities of the disabled peo- ple; recognition of the caregivers' needs; identifica- tion of the com- munity possibili- ties to be responsible and to compromise with those who need develop- mental support.	collective
Arteaga, San Sebas- tian, Amores C	Participatory construction of indicators of an inter- cultural health model in Loreto county, Ecua- dor.	2012	Latin Am PHC	minorities	To develop indi- cators to measure the implementa- tion of an inter- cultural health model.	IA	Pt SC	Creswel, 2007	Pl Act	co-learn- ing	32 indicators to measure the implementation of an intercul- tural health model were identified and grouped in four domains.	Access barriers for the users/ indigenous and their possible solutions were unveiled.	collective
Baird MB et al.	Creating a Bridge of Understand- ing between Two Worlds: Community- Based Collabora- tive-Action Research with Sudanese Refugee Women.	2015	North Am PHC	minorities	To explore the process of part- nership between university researchers, stu- dents, and South Sudanese refugee women to address the health chal- lenges associated with their reset- tlement transition to the United States of Amer- ica.	CCAR	Pt KB SC	Pavlish, Phar- ris, 2011; Wallerstein, Duran, 2010	Pl Act	co-learn- ing	Woman were given mammo- grams, list of suggestions to improve access to health care for their com- munity, net- working and support within the refugee community.	Information about childhood illnesses, women health and stress; under- standing of American cul- ture and cultural differences.	collective
Barbosa RS, Giffin K	Survey and action on gender, reproductive health and daily life with young- sters in Maré, Rio de Janeiro.	2007	Latin Am PHC	minorities	To promote sex- ual and reproduc- tive health of youth that live in poverty contexts.	PA	Pt Cy SC KB	Hollanda, 1993; Reason, 1994	Pl Act Obs Ref	collective action	Collective engagement; elaboration of community pro- jects.	Reflection on equality and social justice using gender as a trigger in order to pro- mote sexual and reproductive health in youth of poverty con- texts.	collective
Berger SMD, et al.	Educating Community Health Agents to face gen- der violence: contributions from Popular Education and feminist pedagogy.	2014	Latin Am PHC	Hc st	To build knowl- edge to cope with gender violence.	PA	Pct Cy KB SC	Thiollent, 1986	Pl Acy Ref	co-learn- ing	To offer tools for the develop- ment of prac- tices concerning violence; coordi- nation of the different terri- tory services.	Discussion about the gender con- cept; broadening of gender vio- lence concept.	collective
Bharmal N et al.	Through Our Eyes: Explor- ing African- American Men's Perspective on Factors Affecting Transition to Manhood.	2011	North Am PHC	minorities	To identify, dis- cuss, and develop strategies to address factors influential in Afri- can-American men's transition to manhood.	CBPR	none	Minkler Wal- lerstein, 2003	Pl Act	co-learn- ing	A program that helps partici- pants access and utilize com- munity resources to build bridges to their futures was structured.	Young men were conscious that they continued to struggle with the challenges they described as they attempted to realize life goals.	collective
Borgia F et al.	From the invisibility of the situation of rural and community health ser- vices in Uruguay towards the prioritization of rural health as Public Policy.	2014	Latin Am Hc Serv	minorities	To establish an agenda of rural health.	IAP	Pt KB SC	Ctruo, 1987; Fals-Borda, Rahman, 1991	P Act Ref	co-learn- ing	Provision of meetings between national sani- tary authorities and residents/ users of differ- ent territories; Health promo- tion projects were built and staff training was provided.	Reflection on the Uruguay health system and rural com- munity health needs.	collective

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Borges MTT, Bar- bosa RHS	Converging gender and popular edu- cation through action research to address female smok- ing within contexts of social vulner- ability.	2013	Latin Am PHC	Cycle	To develop a tobacco preven- tion program operationalized by community smokers.	РА	Pt Cy KB SC	Reason, 1994); Giffin, Simões-Bar- bosa, 2009	Pl Act Obs Ref	co-learn- ing	Planning and execution of a tobacco preven- tion program with community women. Promo- tion of self- esteem and recovery of per- sonal projects of the partici- pants.	Strengthening of the critical capac- ity to understand contemporary society - the indi- tive search for overcoming the inequities and social injustice that women still go through in daily life .	collective
Brito JSS, Albuquer- que PC, Silva EH	Popular health educa- tion with the Xukuru do Ororubă indigenous people.	2013	Latin Am PHC	Hc st	To train Indige- nous Health Agents (IHA) and Indigenous Sani- tation Agents (ISA) for the for- mation of groups of youth and young educators in health.	PA	Pt Cy KB SC	Thiollent, 1998	Pl Act Obs Ref	collective action	Integration of actions with teachers and Educational Board proposal; Formation of a working group to elaborate the training for IHA and ISA, integrated with the Funas Edu- cation and Health calendar. Xukuru youth groups were constituted.	Xukuru youths exerted leader- ship and a polit- ical role in the discussions about health; strengthening of the Xukuru His- tory and iden- tity.	collective
Burgess, Purkis	The power and politics of collaboration in nurse prac- titioner role development.	2010	North Am School	Hc st	To investigate the research question 'How does col- laboration advance NP role integration within PHC?'	PAR	Pt KB Cy	Burgess 2006; Reason 2006. Hall's 2001; Bradbury, Reason 2003; McTaggart 1991; Kem- mis, McTag- gart 2005	Pl Act Obs Refl	co-learn- ing	NPs investigated their experi- ences and fos- tered more democratic rela- tions.	Better under- standing and development of (political) NP role integration. Collaborative efforts are needed to effec- tively prepare and support NPs and their collec- tives to manage the power rela- tions inherent in health organiza- tions and to engage in strate- gic political action for health-care improvement.	collective
Chang C et al.	Studying and Addressing Urban Immi- grant Restaurant Worker Health and Safety in San Francisco's Chinatown District: A CBPR Case Study.	2013	North Am Occup Health	minorities	To influence a policy change, based on a pro- cess about work- ers' perceptions of working condi- tions and experi- ences with occupational injuries and other health conditions.	CBPR	Pt KB SC	Green LW et al. 199; Israel et al. 1998; Israel BA et al. 2003; Wal- lerstein N, Duran B, 2010; Mink- ler M, 2010; Cargo M, Mercer SL, 2006; CFal- lon LR 2001; Minkler M, 2005	Pl Act Obs	co-opera- tion	Establishment of laws and pol- icies to protect Chinese restau- rant workers.	The researchers acquired knowl- edge about the Chinese working situation, but no collaborative knowledge building was described.	collective
Chotibang et al.	Development of a Family and School Collaborative (FASC) Program to Promote Healthy Eat- ing and Phys- ical Activity among School-age Children.	2009	Asia School	Cycle	To develop a family and school collaborative pro- gram to promote healthy eating and physical activities among school-age children.	PAR	Pt KB SC	Stringer, 1999.	Pl Act Obs Refl	co-opera- tion	Implementation of practical activities for healthy eating and physical activity for schoolchildren. Creation and implementation of school poli- cies.	Nutrition educa- tion for children, Health food prep- aration for cafete- ria members. School personnel training on Nutri- tional Assessment System Program. Obesity preven- tion education for parents and school personnel implementation of practical activi- ties for healthy eating and physi- cal activity for schoolchildren. Creation and implementation of school policies.	collective

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Author	Title	Year	of origin/ context	Population	Aim/purpose	Approach	princi- ples	Cited authors	research cycle	participa- tion	Social change	Knowledge building	Domain
Coscrato G, Bueno SMV	Concepts of health educa- tion by pub- lic health nurses.	2013	Latin Am Hc Serv	Hc st	To know the con- cepts of health education in 12 nurses' views and to develop an education action with them.	PA	Pt KB	Molina, 2007; Lewin, 1970; Corey, 1979,	Pl Act Ref	consulta- tion	None.	Reflections intended to raise political con- sciousness on health promo- tion.	collective
Foster Jet al	A Commu- nity-Based Participatory Research approach to explore community perceptions of the quality of maternal- newborn health services in the Domini- can Republic.	2010	Latin Am Hospital	Cycle	To understand community per- ceptions of mater- nity services.	CBPR	Pt SC	Viswanathan et al. 2004;	Plan Act Obs Refl	co-learn- ing	Presentation of results for the community reg- ular meetings with hospital and community volunteers to coordinate how to implement improvements in the maternity setting.	Community dis- satisfaction with health care became evident; this approach has empowered those involved to collaborate towards a com- mon goal of improving health care.	collective
Galvin D, Wilding C, Whiteford G	Utopian visions/dysto- pian realities: Exploring practice and taking action to enable human rights and occupa- tional justice in a hospital con- text.	2011	Australia Hospital	Hc st	To investigate and affect occu- pational thera- pists' understand- ing of human rights theory and occupational jus- tice philosophy in everyday occupa- tional therapy practice.	CAR	Pt KB SC Cy	Wilding 2008; Stringer, 2007; Kemmis, McTaggart, 1998	Pl Act	co-learn- ing	None.	Participants developed an appreciation of how the aspira- tional nature of the WFOT Posi- tion Statement could help them to align their practices with a vision of occu- pation and jus- tice; develop- ment of new and different ways of thinking about occupa- tional therapy practice.	collective
Judd J, Keleher H	Reorienting health ser- vices in the Northern Territory of Australia: a conceptual model for building health pro- motion capacity in the work- force.	2015	Australia PHC	Hc st	To promote health and develop preven- tion practice.	PAR	Pt Cy KB SC	Greenwood, Harkary, 1993; Green et al. 2005; Minkler, Wallerstein, 2003; Cargo, Mercer, 2008; Willis, 2007	Pl Act Obs Ref	co-learn- ing	Improvement of access for Aboriginal patients (work- place structure change); imple- mentation of regular review and evaluation of activities and projects, through a for- mal process of business plan- ning; implemen- tation of health promotion activities.	Participants increased their skills and knowledge of health promo- tion practice.	collective
Lax W, Galvin K	Reflections on a commu- nity action research proj- ect: interprofes- sional issues and method- ological pro- blems.	2002	Europe School	Cycle	To explore local child care issues with the aim of developing initia- tives for improved child care.	AR	Pt Cy SC KB	Morton-Coo- per, 2000; Hart, Bond, 1995; Wallis, 998; Reason, Bradbury, 2001; Green- wood, Levin, 1998; Rea- son, 1998; Meyer, 2000; McNiff, 1998; Whyte, 1988; W	Pl Act Ref	co-learn- ing	Provision of a local holiday play scheme and training to ensure sustain- ability and offer a more flexible resource to meet the community's needs; develop- ment of a com- munity newslet- ter.	Residents started identifying and taking action to meet their needs: increased access to information through inter- professional development of a news-sheet.	collective

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Oliveira, Martins, Bracht	Projects and practices in health educa- tion on school physi- cal educa- tion: possibil- ities!	2015	Latin Am School	Hc st	To investigate how the health theme is approached in pedagogic prac- tices of physical education in pub- lic schools, and to investigate the possibilities of broadening the health concept and how physical education can contribute to health education.	PA	PS Cy	Thiollent, 1985; Elliot, 2000	Pl Act Ref	co-learn- ing	Development of collective pro- jects concerning teachers' health promotion in daily issues; broadening of the possibilities to engage health in personal, social and eco- logical plans.	Development of a broader health conception instead of a restricted biolog- ical perspective.	collective
Peace DM, Myers E	Community- based Partici- patory Pre- cess Climate Change and Health Adap- tation Program for Northern First Nations and Inuit in Canada.	2012	North Am PHC	minorities	To build capacity by funding com- munities to con- duct their own research in co- operation with Aboriginal asso- ciations, aca- demics, and governments.	CBPR	Pt KB	WHO	Pl Act	consulta- tion	Capacity-build- ing workshops/ program; staff have given numerous pre- sentations to government pol- icy and program staff on these understandings and challenges/ community rep- resentative par- ticipated in funding com- mittee.	Enabled youth to re-connect with their Elders and gain climate change and health aware- ness.	collective
Penaran da FC <i>.et al.</i>	Praxis as a foundation for an alter- native health education: an action research study in the Growth and Development Monitoring Program in Medellin, Colombia.	2011	Latin Am School	Hc st	To evidence how the traditional pedagogical prac- tice in health care (based on the bio- logical model) becomes inade- quate when it focuses only on the disease and on the homogeni- zation of the indi- viduals using actions with chil- dren and their caregivers.	PA	Pt KB	Reason, Bradbury, 2011	Pl Act Ref	collective action	Educational practice trans- formation due to the research- ers' and stu- dents' transfor- mation. Trans- formation of the learning environments and of the rela- tions that were built.	Critical reflec- tion about the pedagogy prac- tice and the health concept.	collective
Pessoa VM et al.	Meanings and methods of territoriali- zation in pri- mary health care.	2012	Latin Am PHC	Hc st	To identify and analyze the pro- cess in the terri- tory in the PHC related to the working environ- ment and the consequences on the community's and workers' health in order to propose actions centered on health necessities.	РА	Pt KB	Thiollent, 2008	Pl Act Obs Ref	co-learn- ing	Proposition of a plan with differ- ent sectors for participative actions that go beyond the Bra- zilian PHC National poli- cies.	Recognition of the territory health needs.	collective
Pessoa VM et al.	Action research: methodologi- cal proposal for action planning in primary care services in the context of environ- mental health and occupa- tional health.	2013	Latin Am PHC	Hc st	To use action research in a methodological path that eases the investigation and comprehen- sion of how health access in work, economic development and environment is built.	РА	Pt KB	Thiollent 2008; Haguette, 2001; Bosi, 2007	Pl Act Obs Ref	co-learn- ing	Seminars, crea- tion of different sector groups and local com- mittee; elabora- tion of the natural source regulation law.	Comprehension of the change process that is occurring in the region due to the production process transfor- mation.	collective

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Author	Title	Year	of origin/ context	Population	Aim/purpose	Approach	princi- ples	Cited authors	research cycle	participa- tion	Social change	Knowledge building	Domain
Pontes AGV, Rigotto RM.	Occupational Health and Environmen- tal Health: potentials and challenges of the relation- ship between the univer- sity, the Brazilian Health Sys- tem and social move- ments.	2014	Latin Am Occup Health	disease	To analyze the challenges and potentialities of coordination between univer- sity, Brazilian healthcare system and social move- ments to generate the incorporation of integrated approach between worker health and environmen- tal health.	PA	Pt KB SC	Thiol- lent,2008.	Pl Act Obs Ref	co-learn- ing	Collective pro- duction of an action plan to intervene on the structured real- ity.	Reflections on scientific pro- duction and the interest it responds to; comprehension of the complex- ity and gravity of the social problems in health, work, environment, economics, poli- tics and culture and how they interact in the context of the production rela- tions, environ- ment and health mecessities.	collective
Silva AL	Participatory Action Research in the Empow- ering Process of Brazilian Women in the Context of Interna- tional Migra- tion l.	2008	Australia PHC	Minorities	To create a per- sonal and politi- cal space to empower a group of Brazilian immi- grant women in order to reflect about their lives, the causes and solutions for their problems and to stimulate collec- tive actions.	PAP	Pt Cy SC	Hall, 2001; Petras, Popora, 1993; Martin, 1996.	Pl Act Refl Obs	co-learn- ing	Creation of a Brazilian com- munity associa- tion.	Identification and reflection about the pro- blems concern- ing living in Australia as an immigrant: health, socializa- tion and adapta- tion. Recogni- tion of the lack of belonging as a health factor in immigrants.	collective
Soratto J, Witt RR, Faria EM	Citizen par- ticipation and social control in health: challenges of the family health team.	2010	Latin Am PHC	Minorities	To build a partic- ipatory process and social control in health.	PA	Pt Ciy KB SC	Tobar, Yalour, 2011; Deslandes, Gomes, 2004	Pl Act Ref	co-learn- ing	Higher popular participation in public health.	Knowledge about the orga- nizational struc- ture of the Brazilian health system; recogni- tion of the terri- tory; enhance- ment in the communication between workers and service users.	collective
Toledo RF, Giatti LL, Pelicioni MCF	Social Mobi- lization in Health and Sanitation in an Action Research Pro- cess in an Indigenous Community in North- western Amazon.	2011	Latin Am PHC	Minorities	To report and discuss the facts during and after health and sanita- tion training for <i>Iauareté</i> indige- nous people.	PA	Pt Cy KB SC	Barbier, 2002; Morin,2004; Thiollent, 2011; Pimenta 2005	Pl Act Obs Ref	co-learn- ing	Proactive politi- cization con- cerning local problems aim- ing at better insertion of the indigenous peo- ple in the pro- cess of implementation of sanitary enhancement; elaboration of reclamation documents.	Interdisciplinary knowledge (tra- ditional and technical) was built considering the problems in their integrality, favoring critical reflection and better compre- hension of the reality. Awareness about the socioenvir- onmental and health problems; dissemination of the will to change of the community.	collective
Wynn TA	Using Com- munity-Based Participatory Approaches to Mobilize Communities for Policy Change.	2011	North Am PHC	minorities	To effect tobacco-related policies to pre- vent cancer and other health dis- parities in African American com- munities.	CBPR	Pt Cy KB SC	Israel <i>et al.</i> 1998; Viswa- nathan <i>et al.</i> 2004; Mink- Jer, Waller- stein, 2002	Pl Act Obs	compli- ance	Smoking cam- paign was implemented; establishment of a model as a grassroots com- munity mobili- zation tool for policy change; Dissemination of the manual and fact sheets to partners.	None.	collective

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Author	Title	Year	of origin/ context	Population	Aim/purpose	Approach	princi- ples	Cited authors	research cycle	participa- tion	Social change	Knowledge building	Domain
Zancan L et al.	Communica- tion devices for health pro- motion: methodologi- cal reflections from de pro- cess of shar- cess of shar- ing of Work Case "Recognizing Manguin- hos".	2014	Latin Am PHC	minorities	To share material of several lan- guages about health, environ- ment and citizen- ship of Manguinhos, making the criti- cal analyses of these materials.	РА	Pt KB	Mori, Silva, Beck, 2009	Pl Act Ref	consulta- tion	New communi- cation cycles, training and transformation happened, beyond eco- nomic, urban, social and health policies that do not con- sider the Man- guinhos resi- dents as subjects.	Participants had contact with Manguinhos' productions and reflected whether these materials repre- sent the commu- nity.	collective
Albuquer- que OMR et al.	Public school students' per- ceptions of the environ- ment and food avail- able at the school: an emancipatory approach.		Latin Am School	Cycle	To analyze the perception of stu- dents of public schools about the school environ- ment and feeding habits.	PA	Pt KB SC	Dione, 2007; Franco, 2005	Pl Act Obs Ref	consulta- tion	Promise of feed- ing habits trans- formation.	Children's awareness about the importance of healthy eating habits at school was raised.	individ- ual
Alexander IM	Emancipa- tory Actions Displayed by Multi-Ethnic Women: "Regaining Control of My Health Care".	2010	North Am PHC	Cycle	To evaluate the characteristics of community inter- action with a PCNP as described by women and to identify any emancipatory interests that sur- faced when women examined their interactions with PCNPs.	PAR	Pt Cy	Miskovic, Hoop, 2006; Stanley, Wise, 1983; Freire, 1999; Harding, 1987	Pl Act	co-learn- ing	Recognition of the right to "talk back" to clinicians and make active decisions about their own health.	Participants learned how to speak/stand up for themselves; self-esteem development and behavior change; self- knowledge.	individ- ual
Austin SA, Claiborne N	Faith Well- ness Collabo- ration: A Community- Based Approach to Address Type II Diabetes Disparities in an African- American Community.	2011	North Am PHC	disease	To implement a culturally congru- ent Type II Dia- betes education program that improved partici- pants' evidenced- based self-care practices and self- efficacy.	CBPR	Pt KB SC	Israel <i>et al.</i> , 2003	Pl Act Obs	compli- ance	Changes in church meals; sense of diabe- tes control; habits and behavior change.	Information about diabetes and heart dis- ease and healthy habits (diet, exercising) to prevent those diseases and change lifestyle.	individ- ual
Baldissera VDA, Bueno SMV	Leisure and mental health in people with hyper- tension: convergence in health education.	2011	Latin Am PHC	disease	To develop edu- cational activities related to leisure.	PA	Pt Cy SC KB	Thiollent, 2007	Pl Act Ref	compli- ance	Behavior change and autonomy stimulation; impact on men- tal health and quality of life.	Reflection on the existent bar- rier for leisure activities due to hypertension; socialization through leisure as a strategy to cope with loneli- ness; leisure was understood as a right and a human need.	individ- ual
Braun KL <i>et al.</i>	Building Native Hawaiian Capacity in Cancer Research and Program- ming.	2006	North Am School	disease	To address cancer health disparities by engaging more Native Hawaiians in research, pro- gramming, and health seeking.	CBPR	KB PS	Minkler and Wallerstein, 2003; Israel <i>et al.</i> 1998	Pl Act Obs	compli- ance	Increased num- ber of cancer screenings in both men and women.	Increased indi- vidual compe- tence in research and cancer knowledge.	individ- ual
Carvalho CMRG, Fonseca CCC, Ped- rosa JI	Heath educa- tion on oste- oporosis for elder uni- versity stu- dents.	2004	Latin Am School	Cycle	To prevent osteo- porosis through educational activ- ities.	PA	Pt SC	Thiollent, 1988	Pl Act Obs	consulta- tion	Habit change concerning eat- ing and physical activities.	Older adults were informed about osteoporo- sis and its pre- vention.	individ- ual
Cesarino CB, Casa- grande LDR	Chronic renal patients in hemodialytic treatment: nurse educa- tive action.	1998	Latin Am Hospital	disease	To elaborate an educational plan about renal dis- ease and hemo- dialytic treatment concerning the educational needs and previous knowledge of patients.	PA	Pt KB SC	Thiollent, 1988	Pt Act Obs Ref	consulta- tion	Habit change; social engage- ment to struggle for chronic renal patients' interests con- cerning kidney transplant.	Patients had a better under- standing of their hemodialytic state and started questioning nurses of the treatment unit.	individ- ual

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Condon L, Ingram J	Increasing support for breastfeeding: what can Children's Centres do?	2011	Europe school	Hc st	To stimulate pro- motion and sup- port for breastfeeding within Children's Centers.	AR	KB SC	Lingard <i>et al.</i> 2008	Pl Act Obs	consulta- tion	Centers increased breastfeeding promotion and support. Rela- tionships with health profes- sionals improved, lead- ing to better provision of health services. New links with health profes- sionals were established.	Stakeholders of children's center and parents became aware of the importance of breastfeeding and developed practices addres- sing this issue.	individ- ual
Evans PH et al.	Clinical Prac- tice The WAKE UP study P. H. Evans <i>et al.</i> Development of an educa- tional 'toolkit' for health profes- sionals and their patients with predia- betes: The WAKE UP study.	2007	Europe PHC	Hc st	To develop an educational toolkit to address the information needs of primary health-care pro- fessionals and their patients regarding the management of prediabetes.	AR	Pt	Waterman H et al. 2001; Hampshire AJ, 2000.	Pl Ac t Refl Obs	compli- ance	Development of materials to address patient and health pro- fessional infor- mation needs; patients' behav- ior change; practitioners' practitioners' prediabetes improved	Information about diabetes and prediabetes was delivered to patients and practitioners.	individ- ual
Flicker S et al.	Survey Design From the Ground Up: Collabo- ratively Cre- ating the Toronto Teen Survey.	2010	North Am PHC	Cycle	To develop a community-based, youth-friendly survey and study protocol with youth, academics, and community stakeholders.	CBPR	Pt	Israel <i>et al.</i> 1998; Mink- ler, Wallerstein, 2003	Pl Ac	consulta- tion	A survey tool was developed to conduct fur- ther research.	Collaboration with youth improved and challenged the research team's understanding of youth sexual health issues. The youth learned about sexual health and gained valuable experience applying survey design princi- ples.	individ- ual
Frota MA, Albuquer- que CM, Linarra AG	Popular health educa- tion in caring for the undernour- ished child.	2007	Latin Am Hc Serv	Cycle	To identify par- ents' perception about health edu- cation and to propose actions of popular health education in the assistance of the undernourished child.	PA	КВ	Barbier; 2002	Pl Act Ref	co-learn- ing	None.	New awareness about the under- nourished child in the commu- nity.	individ- ual
Giachello et al.	Reducing Diabetes Health Dis- parities through Community- Based Partici- patory Action Research: The Chicago Southeast Diabetes Community Action Coali- tion.	2003	North Am PHC	minorities	To reduce diabe- tes disparity in Latin African American com- munity.	PAR	Pt SC KB	Stringer, 1999; Fals- Borda, Raha- man, 1991.	Pl Act Obs Ref	consulta- tion	Educational programs cen- ters were installed in dif- ferent facilities of Chicago. Fur- ther assistance for risk patients was provided.	Awareness of the community about diabetes morbidity and mortality and how to prevent/ control it.	individ- ual

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Goddard L, Mackey S, Davidson PM	Functional clinical place- ments: A driver for change.	2010	Australia Hc Serv	Hc st	To create a super- vised professional experience place- ment model to develop a family health promotion intervention to improve the health and well- ness of the family members and reduce risk for ill- ness.	AR	Pt KB SC Cy	McMurray, 2003; McNiff et al., 2003; Meyer, 2000; Waterman et al. 2001; Brown et al. 2004; Karim, 2001; Oliver, Peersman, 2001; Hart, Bond, 1995; Bryer,1999	Pl Act Refl	co-opera- tion	Extended role of the nurse for families of chil- dren with intel- lectual disabil- ities was promoted. The student nurses developed them- selves as profes- sionals, gaining confidence and experience in teaching and promoting social change. Development of an intervention model.	Awareness of the health needs of the families within an envi- ronment where rapport was developed. Proj- ect promoted stronger collabo- rative relation- ships between the project facilita- tors and the early interven- tion agencies.	individ- ual
Heffernan C <i>et al</i> .	The Haida Gwaii Diabe- tes Project: planned response activity out- comes.	1999	North Am PHC	disease	To develop, implement and monitor a com- munity directed approach to man- aging diabetes.	PAR	none	Hall 1982, Green <i>et al.</i> 1995, Herbert, 1996	Pl Act Obs	compli- ance	Change in diet and physical activity increase. There was a decrease in total cholesterol and a rise in HDL.	Diabetics were informed about diabetes and healthy habits.	individ- ual
Hutchinson A, Lovell A	Participatory action research: moving beyond the mental health 'service user' identity.	2013	Europe Hc Serv	disease	To help people with mental health disease move beyond the illness identity.	AR	Pt SC	Reason, Bradbury 2008	Pl Act Refl	co-learn- ing	Transformation of participants' identities. Recovery of self-awareness and confidence in participants' own intellectual abilities.	Participants had the chance to learn more about themselves and tell their mental health story in a differ- ent manner.	individ- ual
Karmaliani R <i>et al.</i>	Applying community- based partici- patory research methods to improve maternal and child health in Karachi, Pakistan.	2009	Asia PHC	minorities	To enhance the health of women and children in multilingual, mul- tiethnic, low socioeconomic communities in Karachi, Pakistan.	CBPR	Pt KB SC	Israel <i>et al.</i> 1998; Mink- ler, Waller- stein, 2003	Pl Act	co-opera- tion	None.	Literacy classes and economic skills.	individ- ual
Kidd S, Kenny A, McKinstry C	Exploring the meaning of recovery-ori- ented care: An action- research study.	2015	Australia He Serv	disease	To inform the development of recovery-oriented services for peo- ple with psycho- social disability associ- ated with mental illness.	coopera- tive inquiry	Pt KB PT	Townsend 2012; Schwartz et al. 2013; Kristiansen, Bloch-Poul- son, 2011; Heron, Rea- son, 2006; Reason, Bradbury 2008; Brad- bury, Berg- man, Lich- tenstein, 2000	Pl Act Ref	co-learn- ing	Mapping con- sumer participa- tion within the organization; development of a workshop and resources that disseminated the group's dis- cussion to the wider psychiat- ric service; an action plan was developed to address the issues identified from the research.	Development of workshops to promote change.	individ- ual
Kim S et al.	Using Com- munity-Part- nered Partici- patory Research to Address Health Dis- parities in a Latino Community	2005	North Am PHC	minorities	To develop train- ing with the com- munity to transform mem- bers into health promoters to encourage a healthier lifestyle.	CPPR	Pt KB PT	Flaskerud, Nyamathi, 2000	Pl Act Ref Obs	compli- ance	Development of practices that encouraged the community to change their lifestyle and habits.	Health promo- ters training. Technical health knowledge was disseminated to the community.	individ- ual
Koch T, Jenkin P, Kralic D	Chronic ill- ness self- management: locating the 'self'.	2004	Australia Hc Serv	disease	To explore asthma self-man- agement models in collaboration with the partici- pant.	PAR	Pt Cy KB	Koch, Kralik 2001, Koch <i>et al.</i> 2002	Pl Act	co-option	Identification of three models of asthma manage- ment.	Participants real- ized they could take control of their own lives, and that it was crucial in man- aging the self.	individ- ual

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Koch T, Kelly S	Identifying strategies for managing urinary incontinence with women who have multiple scle- rosis.	1999	Australia Hc Serv	disease	To identify strate- gies for managing incontinence in women with mul- tiple sclerosis (MS).	PAR	Pt Cy SC	Knight <i>et al.</i> 1997; Nichols <i>et al.</i> 1997; Reason <i>et al.</i> , 1994; Street, Robinson, 1995	Pl Act Ref	co-learn- ing	Coping strate- gies were devel- oped to manage the condition by those with Mul- tiple Sclerosis themselves.	Participants shared experi- ence about uri- nary inconti- nence and other problems caused by multiple scle- rosis.	individ- ual
Levinson KL <i>et al</i> .	The Peru Cervical Can- cer Preven- tion Study (PERCAPS): Community Based Partici- patory Research in Manchay, Peru.	2013	Latin Am PHC	Cycle	To test HPV in female persons and treat positive cases.	CBPR	Pt	Minkler, Wallerstein, 2008	Pl Act	co-option	Large-scale delivery of pre- ventive health care, with cervi- cal cancer screening and vaccination as the target inter- ventions.	CHW were taught how to collect data.	individ- ual
Liu J et al.	Community- based partici- patory research (CBPR) approach to study chil- dren's health in China: Experiences and reflec- tions.	2011	Asia School	Cycle	To examine the long term impacts of early exposure to environmental toxins (mainly lead) and malnu- trition on the development of children's and adolescents' neu- rocognitive and neurobehavioral outcomes.	CBPR	Pt KB SC	Israel <i>et al.</i> 203; 20015; Ali <i>et al.</i> 2008	Pl Act	co-option	The dissemina- tion of the research results led to further research; free measurements of blood pres- sure and body mass index as well as simple physical exams were offered	School nurses were trained on exposure preven- tion and stan- dard height/ weight measurement.	individ- ual
Lui, Gao Pussari	Using Partici- patory Action Research to Provide Health Pro- motion for Disadvan- taged Elders in Shaanxi Province, China.	2006	Asia PHC	Cycle	To enable various stakeholders working within a coordinated framework to address the social, economic, and environmental factors that adversely influ- ence elders' health in an effort to promote healthy lifestyles among elders.	PAR	Pt KB SC	Zoucha et al. 2003; Naylor et al. 2003	Pl Act Ref Obs	co-opera- tion	The community was given land to generate funding by planting and selling plants and herbs.	Older adults had the chance to be heard. Numer- ous changes occurred regard- ing the elders' self-awareness, attitudes toward health promo- tion, and health behaviors and skills.	individ- ual
Ma GX et al.	A CBPR to a Hepatitis B intervention for Korean Americans.	2012	North Am PHC	minorities	Developing, implementing, and evaluating a culturally appro- priate church- based HBV screening and vaccination inter- vention program.	CBPR	Pt KB SC	Israel et al. 2001; Israel et al. 1998, Wallerstein, Duran, 2001; Tandon, Kwon, 2009; Viswanathan et l, 2004	Pl Act Ref	compli- ance	Significant increases in screening and vaccination rates in the intervention group compared with the control group.	Community partners training about research design and implementation procedures; clin- ical partners gained knowl- edge of research and expanded their service.	individ- ual
McQuiston C et al.	Community- Based Partici- patory Research with Latino Community Members: Horizonte Latino.	2005	North Am PHC	minorities	To demonstrate how academicians and community mem- bers came together as researchers to generate the pre- liminary data that were used to write the back- ground and sig- nificance section and portions of the preliminary studies section of a grant proposal.	CBPR	Pt Cy SC	Chisolm, Elden, 1993; Flaskerud, Nyamathi, 2000; Fals Borda, 2001; McQuiston, Choi-Hevel, Clawson, 2001; Rea- son, 1988; Stringer, 1996	Pl Act Ref	co-opera- tion	The researchers were given a road map for granting the development of "Gender, Migration, and HIV Risks Among Mexi- cans" propos- als.	Development of a local theory of HIV risk in their community.	individ- ual

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Mendenhall Γ <i>et al.</i>	The Family Education Diabetes Series (FEDS): com- munity-based participatory research with a midwestern American Indian com- munity.	2010	North Am PHC	minorities	To describe and report pilot data from the FEDS (The Family Edu- cation Diabetes Series) project.	CBPR	Cy Pt KB SC	Lewin 1946; Minkler, Wallerstein 2003;Rah- man, Fals- Borda 1991; Kemmis, McTaggart 2000; Heron, Reason 2001; Kelly, Mock, Tandon 2001; Ludema, Cooperrider, Barrett 2001; Bul et al. 2001; Bul et al. 2001; Ball et al. 2004; Torre,- Fine 2005; Baum, Mac- Dougall, Smith 2006; Braithwaite et al. 2007; Wil- son, Ho, Walsh 2007;; Classen et al. 2008	Pl Act Obs	collective	Participants' average blood pressure was significantly reduced; meta- bolic control was significantly improved; parti- cipants' average weight loss had significantly improved; con- struction of FEDS field man- ual.	Knowledge/edu- cation about health, targeting the most vulner- able facets.	individ- ual
Naidu A et al.	Exploring oral health and hygiene practices in the Algon- quin commu- nity of Rapid Lake, Que- bec.	2014	North Am PHC	minorities	To create a cul- turally adapted activity to pro- mote children's oral health and hygiene practices.	CBPR	КВ	Harrison, White, 1997	Pl Act Ref	compli- ance	Development of activities designed to increase chil- dren's oral health knowl- edge and beha- viors both at school and at home where parents were directly impli- cated.	Increased capac- ity in oral health promotion in local youth, community research partners and the student researcher.	individ- ual
Nilvarang- kul K <i>et al</i> .	Action Research to Strengthen Women Weavers' Self-Care in North-East Thailand.	2012	Asia Occup Health	disease	To improve self- care and work safety practices among women weavers.	AR	Су	Nilvarangkul et al., 2006	Pl Act Ref	collective action	Implementation of individual health-care changes and increase of group leader- ship capacity for promoting general health and work safety practices among the groups.	Identification of personal and work-related health issues, environmental contamination concerns, and lack of social and community support systems.	individ- ual
Onella AM et al.	Mental health pro- motion in comprehen- sive schools.	2014	Europe School	Hc st	To develop a pro- fessional practice model of mental health promotion in a comprehen- sive school.	AR	Pt Cy SC KB	Genat, 2009; Levin, 2012; Carr 2011; O'Brien 2001, Potvin <i>et al.</i> 2010	Pl Act Obs Ref	co-opera- tion	Mental health promotion interventions were delivered, with increasing experiences of positive mental health.	Participants in the workshops pro- duced knowl- edge on workable mental health promo- tion according to their percep- tions, profes- sional experience and needs.	individ- ual
Ramsden VR, McKray S, Crowe J	The pursuit of excellence: engaging the community in participa- tory health research.	2010	North Am PHC	disease	To engage the communities being served by PHC in the devel- opment of pro- grams to enhance health and well- being with a spe- cial interest in metabolic syn- drome.	CBPR	Pt KB SC	Minkler, Wallerstein, 2003; Israel <i>et al.</i> 1998, 2003; Macaulay, 1999.	Pl Act	co-option	None.	Integration of elements from primary health care and social responsibility in such a way that capacity was increased, exper- tise of each per- son was valued and communities felt empowered.	individ- ual

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Rios-Cortá- zar V. <i>et al.</i>	Child narra- tive in school settings. A strategy for health promotion.	2014	Latin Am school	Cycle	To describe the process of devel- opment of the capacities of a school population concerning eating habits, physical activities and obe- sity prevention.	IAP	SC KB	Viswanathan et al. 2004; Vaughn L, Wagner E, Jacquez F, 2013	Pl Act Ref	compli- ance	Development of individual school perfor- mance.	Recognition of the promotion of relations and action that pro- mote a violence- free environ- ment.	individ- ual
Reberte LM, Hoga LAK, Gomes ALZ.	Process of construction of an educa- tional book- let for health promotion of pregnant women.	2012	Latin Am PHC	Cycle	To design a booklet for preg- nant women, pro- viding them with accessible infor- mation about pregnancy.	PA	Pt Cy KB	Thiollent, 2005	Pl Act Ref	consulta- tion	Educational material for pregnant women was designed.	Systematization of previous knowledge in a didactic material format.	individ- ual
Rebert LM, Hoga LAK	The develop- ment of preg- nant women using the body approach.	2005	Latin Am hospital	Cycle	To identify the physical and emo- tional discomfort of pregnant parti- cipants; to describe the resources of the body approach used to relieve discomfort informed by preg- nant women.	PA	Pt Cy KB SC	Thiollent, 2005	Pl Act Obs Ref	co-learn- ing	Well-being pro- motion.	Participants learned body technics to pro- mote well-being.	individ- ual
Smith <i>et al.</i>	Translation to Practice of an Interven- tion to Pro- mote Colo- rectal Cancer Screening Among Afri- can Ameri- cans.	2012	North Am PHC	disease	To promote colo- rectal cancer screening among African Ameri- cans.	CBPR	Pt	Israel, 1998	Pl Act	co-option	Participants were screened for colorectal cancer.	Staff were trained to collect data.	individ- ual
Uribe BPM et al.	Health edu- cation on: an experience with indige- nous popula- tion from the department of Chocó.	2013	Latin Am PHC	minorities	To improve the health conditions and eating habits of the indigenous community.	IAP	none	Goyette, Lessard-Hér bert,Susman, Evered, 2010 Bosco Pinto,1987	Pl Act Ref	co-learn- ing	Development of a booklet about nutritional aspects. Subject participation enabled the acceptance of the material produced.	Educational actions using games, texts and discussions as tools.	individ- ual
Vasconcelos VM <i>et al</i> .	Child care in nursing and health educa- tion: mother's per- ception in family health strategy.	2012	Latin Am PHC	Cycle	To describe the experience of mothers about their children's care and their perception about child care in nurs- ing.	PA	Pt	Thiollent, 2003.	Pl Act	consulta- tion	Participants changed care practices with their children.	Participants acquired techni- cal knowledge about child care.	individ- ual
Vinholes ER, Alano GM, Galato D	Community's Perception Towards the Performance of Pharmaceuti- cal Service Care in the Health Edu- cation Actions Related to Rational Medicine Use.	2009	Latin Am PHC	disease	To present the experience of Pharmaceutical attention service in community actions to pro- mote the rational use of medical drugs.	PA	none	Minayo, 2004	Pl Act	compli- ance	Behavior change regarding the use of medical drugs (observed after educa- tional action through patients' reports).	Knowledge about rational medical drugs use (self-medica- tion, use and right time to use and treatment adherence).	individ- ual
Yang YM et al.	Health Empower- ment Among Immigrant Women in Transnational Marriages in Taiwan.	2015	Asia PHC	minorities	To develop, implement, and evaluate a theory-based intervention designed to pro- mote increased health empower- ment for married migrant women.	PAR	Pt Cy SC KB	McNiff, 2013; Rea- son, Brad- bury, 2008; Tapp, Dulin, 2010; Koshy, 2005	Pl Act Ref	compli- ance	Development of psychological resilience, increase of health literacy, capacity of building social networks, enhancement of sense of self- worth.	Development of psychological resilience, increase of health literacy, capacity of building social networks, enhancement of sense of self- worth.	individ- ual

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Author	Title	Year	of origin/ context	Population	Aim/purpose	Approach	princi- ples	Cited authors	research cycle	participa- tion	Social change	Knowledge building	Domain
Zoellner et al.	H.U.B city steps: meth- ods and early findings from a commu- nity-based participatory research trial to reduce blood pres- sure among African Americans.	2011	North Am PHC	disease	To address a lack of physical activ- ity and a high prevalence of car- diovascular dis- ease.	CBPR	Pt	Wallestein, Duran, 2003; Viswanathan <i>et al.</i> 2004	Pl Act Obs	compli-	Significant decreases in pri- mary blood pressure out- comes; adher- ence to pedometer diary self-monitoring was better than education ses- sion participa- tion.	Technical knowledge about prevention of cardiovascu- lar disease.	individ- ual
Ainsworth D, Diaz H, Schmidtlein MC	Getting More for Your Money: Designing Community Needs Assess- ments to Build Collab- oration and Capacity in Hospital Sys- tem Commu- nity Benefit Work.	2013	North Am hospital	Hc st	To establish a community health needs assessment (CHNA) con- ducted by four nonprofit hospital systems to build sustained collabo- rative practices among the hospi- tals.	CBPR	Pt KB SC	Minkler, Wallerstein, 2008; Rob- son, 2002.	Pl Act	compli- ance	Development of external and internal collabo- rative practices; fewer hierarchic decisions in the hospital and more commu- nity level per- ceptions were taken into account; rela- tionship between hospi- tal stakeholders impro- ved = expanded peer networks.	Understanding of potential community part- ners.	organiza- tional
Bergdahl E et al.	Development of nurses' abilities to reflect on how to create good caring relationships with patients in palliative care: an action research approach.	2011	Europe hospital	Hc st	To enhance nurses' abilities to reflect on how to create good car- ing relationships with patients in advanced home care.	AR	Pt KB Cy	Waterman et al. 2001	Pl Act Obs Ref	co-learn- ing	Each case was treated differ- ently and more accurately than before the AR process. Clinical reasoning and new practices were developed.	The participants increased their ability to reflect on how to create caring relation- ships and were helped to under- stand clinical and ethical pro- blems.	organiza- tional
Bucchi SM, Mira VL	Redesigning the nurse admission training pro- cess at the intensive care unit.	2010	Latin Am hospital	Hc st	To analyze the redesign of the admission train- ing process (ATP) of intensive care nurses.	PA	Pt Cy KB SC	Thiollent, 2008	Pl Act Ref	co-opera- tion	Redesign of the admission train- ing process (ATP) of inten- sive care nurses.	The complexity of the admission training was exposed.	organiza- tional
Clancy A	Practice model for a dementia outreach ser- vice in rural Australia.	2015	Australia Hc Serv	Hc st	To investigate the nature and deliv- ery of a service model in a rural dementia out- reach service.	PAR	Pt	Koshy,Water- man, 2011; Morton-Coo- per, 2000	Pl Act Refl	compli- ance	A Practice Model of Dementia Out- reach Service was established as a result of the focus groups (data extrac- tion).	Participants shared points of views.	organiza- tional
Cook NF Deeny PD, Thompson K	Management of fluid and hydration in patients with acute sub- arachnoid haemorrhage – an action research proj- ect.	2004	Europe Hospital	Hc st	To determine how nurses pres- ently see their role in relation to fluid management in patients with subarachnoid haemorrhage, to determine the cues to guide their practice, and how this role corresponds to current patient care. A final objective was to identify how the nurses' role can be maximized to provide optimal patient care.	AR	Pt KB SC	Parahoo, 1997	Pl Act	compli- ance	None	Nurses became more aware of their roles in the unit concerning hydration and fluid manage- ment. Nurses became more knowledgeable about these issues too. The focus group led to clarification of their roles.	organiza- tional

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Crozier K, Moore J, Kite K	Innovations and action research to develop research skills for nursing and midwifery practice: the Innovations in Nursing and Mid- wifery Practice Proj- ect study.	2012	Europe hospital	Hc st	To develop sus- tainable resources in the hospital to encourage, sup- port and develop research activity and innovation among nurses and midwives.	AR	Cy Pt SC	Coghlan, Casey, 2001; Elliott, 1991; Kem- mis, McTag- gart, 2000; Morrison, Lilford, 2001; Heik- kinen <i>et al.</i> 2007	Pl Act Obs Ref	co-opera- tion	Changes in clin- ical areas; devel- opment of individual nurs- ing and mid- wifery innova- tion projects; improvement of patient care and reduced length of stay in hospi- tal and more efficient man- agement of patient care.	Development of research aware- ness and skills among the nurs- ing staff; oppor- tunities to develop their own evidence base and to use their clinical expertise to inform innova- tion were pro- vided.	organiza- tional
Daltuva JA et al.	Building a Strong Foun- dation for Occupational Health and Safety: Action Research in the Work- place.	2009	North Am Occup Health	disease	To address occu- pational health and safety issues in an organized workplace.	AR	Pt KB SC Cy	Elden, 1981; Whyte, 1991; Israel et al., 1992; Brad- bury et al., 2008; Rea- son, Brad- bury, 2001; Gaventa, Cornwall, 2008; Gar- dell, 1982; Laurell et al., 1992; Schulz et al. 2003	Pl Act Obs Refl	co-learn- ing	Recognition of the need for data collection and analysis, so that informed decisions could be made; devel- opment of com- munication and facilitation skills of group members.	Communication training; recom- mendations for necessary ergonomic improvements, and ergonomics awareness train- ing for the AR group; power sharing.	organiza- tional
Day J, Hig- gings I, Koch T	The process of practice redesign in delirium care for hospita- lised older people: A participatory action research study.	2009	Australia hospital	Hc st	To improve clini- cal practice in a hospital ward for older adults.	PAR	Pt Cy	Koch, Kralik, 2001, 2006; Koch <i>et al.</i> , 2002	Pl Act Obs Refl	co-learn- ing	Changes in clin- ical areas; devel- opment of individual nurs- ing and mid- wifery innova- tion projects; improvement of patient care and reduced length of stay in hospi- tal and more efficient man- agement of patient care.	Raising aware- ness about delir- ium and its prevention.	organiza- tional
Deery R	An action- research study explor- ing midwives' support needs and the effect of group clin- ical supervi- sion.	2005	Europe hospital	Hc st	To explore com- munity midwives' views and experi- ences of their support needs in clinical practice, and then to iden- tify how they would wish to receive such support.	AR	Pt KB SC	Meyer, Batehup, 1997; Water- man <i>et al.</i> , 2001; Winter, Munn-Gid- dings, 2001; Murn,-Gid- dings, 2001; Hart, Bond, 1995; Morz, Kirk- ham, 2000; Hart, Bond, 1995; Morz, 2001; Maguire, 2001	Pl Act	compli- ance	None.	Midwives learned to value what they can measure. Under- standing that midwifery needs a different way of thinking. However, the midwives worked in a bureaucratic, hierarchical NHS system, in which a techno- cratic paradigm of healthcare existed, and this has been shown to be intolerant of different ways of thinking.	organiza- tional
Deery R, Hughes D	Supporting midwife-led care through AR: a tale of mess, muddle and birth balls.	2004	Europe hospital	Hc st	To support mid- wives in changing their practice.	AR	Pt Cy SC	McNiff, 2002; Schön, 1983; Edwards, Ribbon, 1998; W; Stringer, 1996; Water- man et al. 2001; Elliot, 1991; Atkin- son, 1994; Winter, Munn-Gid- dings, 2001	Pl Act Rfel	co-learn- ing	Development of an active physi- ological birth. Enrichment of midwives' part- nership with their clients.	Development of a common phi- losophy by rec- ognizing the difficulty of the unit and the staff.	organiza- tional

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Delva D et al.	A new model for collabora- tive continu- ing profes- sional devel- opment.	2008	North Am PHC	Hc st	To develop a model of Con- tinuing Profes- sional Develop- ment using a case-based approach that would allow the exchange of information between primary health care provi- ders in the com- munity.	PAR	collabo- ration	Macaulay et al., 1998	Pl Act	compli-	Personal inter- action and com- munication in the meetings, reducing power hierarchies.	Information technology was promoted as a tool for effective knowledge shar- ing and communication.	organiza- tional
Dewing J, Traynor V	Admiral nursing com- petency proj- ect: practice development and action research.	2005	Europe He Serv	Hc st	To work collabo- ratively with the practitioners to develop a compe- tency framework.	AR	collabo- ration	Holter, Schwartz- Barcott, 1993; Carr, Kemmis, 1986; Webb, 1986; Webb, 1986; Webb, 1986; Webb, 1986; Webb, 1986; Webb, 2001; Green- wood 1994; Le Gris <i>et al.</i> 2000; Cogh- lan, Casey 2001; Kelly, Simpson 2001; Wil- liamson, Prosser, 2002	Pl Act Refl	compli- ance	Development of a specialist nursing compe- tency frame- work.	Practitioners engaged in and experienced learning about how to research their own prac- tice and the con- sequences of doing this; increase in awareness about the culture within their teams and orga- nizations.	organiza- tional
Finley GA, Foregon PF, Arnaout M	Action Research: Developing a Pediatric Cancer Pain Program in Jordan.	2008	Europe He Serv	Hc st	To develop, implement, and evaluate a pediat- ric pain manage- ment program at a Children Cancer Center.	AR	SC KB Cy	Dick B, 2002;	Pl Act Ref Obs	consulta- tion	Evidence-based pain evaluation and prescrip- tions were established. Cre- ation of family education mate- rial and a pedi- atric pain management curriculum for health profes- sionals.	Staff education/ training.	organiza- tional
Galvin K et al.	Investigating and imple- menting change within pri- mary health care nursing team.	1999	Europe PHC	Hc st	To understand the health service and propose changes.	AR	KB SC Cy	Waterman, 1994.; Hart, Bond, 1995; Role, 1995	Pl Act Obs Ref	co-opera- tion	Implementation of new practices (there were pro- blems during the implementa- tion).	Researchers and stakeholders were aware of the service pro- blems (practical and communica- tion).	organiza- tional
Gonçalves CA <i>et al.</i>	Strategies for tackling absenteeism in dental appointments in the Family Health Units of a large municipality: action research.	2015	Latin Am PHC	Hc st	To analyze the reasons of absence in dental appointments in a health care unit and to implement strategies for its reduction.	PA	Pt KB SC	Franco, 2005; Adel- man, 1993	Pl Act Obs Ref	co-learn- ing	Development of a protocol and creation of awareness prac- tices and team involvement. A single patients' record was adopted. Reduc- tion of 66% in absences.	Reflection about the reasons of absences in the PHC.	organiza- tional
Hills M, Mullet J, Carroll F	Community- based partici- patory action research: transforming multidisci- plinary prac- tice in primary health care.	2007	North Am PHC	He st	To develop a model that uses multidisciplinary practice teams to provide a range of coordinated, integrated services and put it into practice.	CBPAR	Pt Cy KB SC	Israel <i>et al.</i> 1998	Pl Act Rfl	co-learn- ing	Development of a framework for multidisci- plinary team practice and integrated client care.	Consensus that there is a discrep- ancy between the ideal way to prac- tice and real-life examples. The authors conclude that the objective can only be achieved once there is a change in the underlying structures, values, power relations, and roles defined by the health care system and the community at large, where phy- sicians are tradi- tionally ranked above other care providers.	organiza- tional

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Author	Title	Year	of origin/ context	Population	Aim/purpose	Approach	princi- ples	Cited authors	research cycle	participa- tion	Social change	Knowledge building	Domain
Hito PD et al.	Modification of nursing practice through reflection: participatory action research.	2001	Europe Hospital	Hc st	To promote reflection about nursing care using a participative process to change nursing practice.	PAR	Су	Kemmis, McTaggart, 1988	Pl Act Ref Obs	collective action	Elaboration of nursing practice change strate- gies.	The participants developed self knowledge and critical and holistic	organiza tional
Hummel- voll JK, Severinscon E	Researchers' experience of co-operative inquiry in acute mental health care.	2005	Europe Hc Serv	Hc st	To further the nursing staff's professional com- petence, and to create a fruitful learning environ- ment for mental health care stu- dents, as well as for staff.	AR/co- operative inquiry	KB Pt SC	Reason 1994; Coghlan, Brannick 2001; Rea- son, Brad- bury, 2001; Morton-Coo- per, 2000	Pl Act Ref	compli- ance	None.	Increase in parti- cipants' collec- tive knowledge through shared insights about clinical experi- ence.	organiza tional
Iyamure- mye, Brys- wicz	The develop- ment of a model for dealing with secondary traumatic stress in men- tal health workers in Rwanda.	2015	Africa Hc Serv	Hc st	To develop a comprehensive model to manage the effects of Sec- ond Trauma Stress in mental health workers.	AR	Pt Cy	Koshy, 2010	Pl Ac Ref	co-option	A model to manage the effects of Sec- ond Trauma Stress in mental health workers was built and tested.	None.	organiza tional
Jesus MCP et al.	Permanent education in nursing in a university hospital.	2011	Latin Am Hospital	Hc st	To identify demands and expectations, fac- tors that interfere in the qualifica- tion of nursing workers of a uni- versity hospital and to propose permanent educa- tion training.	PA	Pt Cy KB SC	Thiollent, 2009 Morin, 2004	Pl Act Obs Ref	consulta- tion	A proposal for the creation of a Nursing Per- manent Educa- tion Center was developed.	Reflections about nursing work reality, enabling mobili- zation of work- ers, perception of problems according to the participants.	organiza tional
Kelleher J, Mc Auliffe E	Developing clinical gov- ernance in a service for people with intellectual disabilities: An action research approach.	2012	Europe He Serv	Hc st	To explore the issues in imple- menting a com- prehensive clinical governance framework in an organization.	AR/co- operative inquiry	Pt SC KB	Greenwood, Levin, 2007; Coghland, Brannick, 2010; Meyer, 2001	Pl Act Ref	consulta- tion	Staff at all levels began to take ownership of the clinical gov- ernance agenda; promotion of collaboration across clinical and non-clinical disciplines; it is anticipated that it will result in new approaches to service qual- ity in the orga- nization in the future.	Knowledge about formal and informal practices at the frontline, identi- fying strengths in the system, provided build- ing blocks for further improve- ment.	organiza tional
Kelly D, Simpson S, Brown P	An action research proj- ect to evalu- ate the clinical prac- tice facilita- tor role for junior nurses in an acute hospital set- ting.	2002	Europe hospital	Hc st	To establish clini- cal practice facilitators (CPFs) to support both healthcare assis- tants and newly qualified registered nurses to enhance their competence and clinical skills.	AR	Pt Cy KB SC	Meyer, 1993; Lewin, 1946; McNiff, 1991	Pl Act Ref Ob	compli- ance	Development of a program for newly quali- fied nurses that covers a number of skills; estab- lishment of the CPF role and proving the evi- dence of its effectiveness.	None.	organiza tional
Kennedy M	Improving pressure ulcer prevention in a nursing home: an action research.	2005	North Am Hc Serv	Hc st	To implement best practice in pressure ulcer prevention.	AR	Су	Hart, Bonde, 1995; Mor- ton-Cooper, 2000	Pl Act Ref Obs	compli- ance	Improvement in the practice of pressure ulcer prevention; improvements in communica- tion, outcome measures, docu- mentation and increase in indi- vidual account- ability.	None.	organiza tional
Kristensen HK, Borg T, Houns- gaard L	Facilitation of research- based evi- dence within occupation therapy with stroke reha- bilitation.	2011	Europe Hc Serv	Hc st	To investigate aspects that facili- tate occupational therapists' reason- ing when imple- menting evidence- based practice within stroke rehabilitation.	PAR	Pt	Kemmis, McTaggart, 2005; Stringer, 2007	Pl Act Ref Obs	co-learn- ing	Clinical practice transformation through imple- mentation of evidence-based practice.	Therapists were able to analyze, reflect and change their own attitudes and ways of working.	organiza tional

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Manenti SA et al.	The construc- tion process of managerial profile com- petencies for nurse coordi- nators in the hospital field.	2012	Latin Am Hospital	Hc st	To build the management competencies pro- file for nurse coordinators.	PA	Pt KB SC	Thiollent, 1992	Pl Act Obs Ref	co-learn- ing	A professional development plan was built based on com- petencies that respond to the technical, ethi- cal-political, communicative and citizenship development domains.	Understanding of the constitu- tive elements of the management work process and its compe- tencies.	organiza- tional
McKellar I., Picombe JI, Henderson AN	Action research: a process to facilitate col- laboration and change in clinical midwifery practice.	2010	Australia Hospital	Hc st	To enable mid- wives to engage in collaborative research and enhance their practice.	AR	Pt Cy KB SC	Lewin, 1946; Kemmis, McTaggart, 1982; Green- wood, 1994; Owens et al. 1999; Wilk- inson, Ehrich, 2000; Waterman et al. 2001; Hart, Bond, 1995; Meyer, 2000; Closs, Cheater, 1999; Winter and Munn- Giddings, 2001	Pl Act Ref Obs	co-opera- tion	Actions to improve the provision of postnatal educa- tion and sup- port were proposed (bro- chure and book- let).	Midwives real- ized parents' needs.	organiza- tional
Mello ALSF, Moyses SM	Best practices in local health sys- tems: focus- ing on the elderly's oral health.	2010	Latin Am PHC	Hc st	To use best prac- tices in the elderly's oral health.	РА	SC KB	Barbier, 2007	Pl Act	consulta- tion	A list of best practices in the elderly's oral health was built concerning administration, work process and education.	Discussion about the foundation, practices and elements of the environment that influence in the project and organization of the health sys- tem.	organiza- tional
Minkler M et al.	Using Com- munity-Based Participatory Research to Design and Initiate a Study on Immigrant Worker Health and Safety in San Francisco's Chinatown Restaurants.	2010	North Am Occup Health	Disease	To study restau- rant working con- ditions and worker health in San Francisco's Chinatown and the restaurant- level determinants of workers' health and occu- pational injuries and illnesses.	CBPR	Pt KB SC	Green et al., 1995; Israelet al., 1998; Mink- Ier, 2005; Minkler, Wallerstein, 2008	Pl Act	consulta- tion	A worker sur- vey instrument and a restaurant observational checklist were collaboratively developed and applied.	Training of Chi- natown restaurant work- ers about worker health and safety, workers' rights, the differ- ences between direct service, advocacy and organizing, and about commu- nity involvement in scientific research.	organiza- tional
Mitchell EA et al.	Towards rehabilitative handling in caring for patients fol- lowing stroke: a participa- tory action research proj- ect.	2005	Europe hospital	Hc st	To help nurses take ownership of their moving and handling practice.	PAR	Cy Pt KB SC	Holter,Sch- wartz-Bar- cott, 1993; East, Robin- son, 1994; Cochlan, Casey, 2001	Pl Act Obs Ref	consulta- tion	There were changes in nurses' and phy- siotherapists' practices.	Nurses identified that equipment, environment, communication and teamwork strategies would help them in rehabilitative moving and han- dling practice.	organiza- tional
Monteiro EMLM; Vieira NFC	Health edu- cation based on culture circles.	2010	Latin Am PHC	Hc st	To propose the (re)construction of Health Educa- tion actions that address the neces- sary competencies of PHC nurses for an educa- tional practice.	РА	none	Peruzzo CMK, 2005	Pl Act	co-learn- ing	Proposal of (re)construction of actions in the Health Educa- tion.	Discussion on the performance of PHC nurses for an education praxis in reflec- tive and critical health.	organiza- tional

Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Moxham L et al.	Recognising our role: improved confidence of general nurses pro- viding care to young people with a mental illness in a rural paediatric unit.	2010	Australia hospital	He st	To implement and evaluate strategies sug- gested by general nurses to improve management of children and ado- lescents with mental health problems admit- ted to a pediatric unit of a general hospital.	PAR	Pt Cy KB SC	Stringer 2007; Holter, Schwartz- Barcott 1993; Hart, Bond 1995, Rolfe 1996; Cogh- lan, Casey, 2001	Pl Act Ref Obs	consulta- tion	Implementation of education sessions and organizational tools. Changes in the unit orga- nization were effected. Two additional poli- cies were intro- duced.	Nurses under- stood their strengths and weaknesses and acknowledged and challenged the assumptions on which their ideas, feelings and actions about patients with mental health issues are based. Partici- pants also recog- nized the existing skills and expertise they possess.	organiza- tional
Nicoll L	The study of biology as a cause of anx- iety in stu- dent nurses undertaking the common foundation programme.	1996	Europe school	Disease	To identify the major causes of anxiety and iden- tify methods of reducing this anx- iety in present students, as well as minimizing anxiety in those students com- mencing their nurse education.	AR	Су	Nolan, Grant, 1993	Pl Act Ref	co-opera- tion	Implementation of changes con- cerning the biol- ogy course.	Identification of the major causes of anxiety in students when studying biology.	organiza- tional
Oikasu EM et al.	Improving the quality of nursing docu- mentation: An action research proj- ect.	2014	Africa Hospital	Hc st	To improve nurses' documen- tation of their patient assess- ments in order to enhance the qual- ity of nursing practice.	AR	Pt Cy Sc KB	Dick, 2002	Pl act Obs Refl	compli- ance	Culture change by implement- ing organiza- tional instru- ments.	Proper documen- tation training.	organiza- tional
Oldman C, Broadi D, Nmatsaka- nova N	Community health equip- ment loans: developing a clinical prior- itization sys- tem.	2003	Europe PHC	Hc st	To develop an objective method for making equip- ment loans to home-based patients.	AR	Pt	Holter, Schwartz- Barcott, 1993; Hart, Bond, 1995; Le May, Lathlean, 2001	Pl Act Obs Ref	consulta- tion	Development and implemen- tation of a clini- cal referral form.	Identification of patients' needs.	organiza- tional
Pratt RJ et al.	Kaleidoscope: a 5-year action research project to develop nurs- ing confi- dence in caring for patients with HIV disease in west India.	2001	Asia Hc Serv	Hc st	To build clinical confidence and facilitate relevant changes in nursing prac- tice.	AR	Cy SC	Elliott 1991; Lewin 1946; 1952; Carr, Kemmis 1986; Hart, Bond, 1995; Lathean, 1994	Pl Act Obs	compli- ance	Application of a 10-day educa- tional program, a change inter- vention; devel- opment and application of individual and partnership action plans focused on bringing about changes in nurs- ing practice within well- defined fields of action. The pro- cess inspired professionals to greater personals and professionals to greater personal commitments.	Increased their confidence and knowledge and decreased their fear of conta- gion.	organiza- tional
Queiroz DM, Silva MRF, Oli- veira LC	Continuing Education for Community Health Agents: potentialities of an educa- tion guided by the frame- work of Health and Popular Edu- cation.	2013	Latin Am PHC	Hc st	To show the knowledge build- ing and coping actions by com- munity health agents.	PA	Pt Cy SC	Barbier, 2007	PL Act Ref	co-learn- ing	Health promo- tion proposals were designed.	Community health agents attributed new meaning to their work process; new comprehen- sions about ways to produce health; technical knowledge was built by commu- nity health agents.	organiza- tional

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Ramos CCS et al.	Invasive hemody- namic moni- toring at bedside: nurs- ing evalua- tion and cursing care protocol.	2007	Latin Am hospital	Hc st	To establish parameters used by nurses in the intensive care unit when caring for hemodynamic monitored patients and to propose a nursing care protocol.	PA	Pt	Polit, Beck, Hungler, 2004	Pl Act Ref	compli- ance	Development of a protocol for decision making for nursing pro- ceedings.	Better technical comprehension of the catheter to enhance nurs- ing care.	organiza- tional
Rasmussen K et al.	Worker Par- ticipation in Change Pro- cesses in a Danish Industrial Setting.	2006	Europe Occup Health	disease	To study the development and implementation of intervention directed at the work environ- ment.	PAR	Pt SC KB	Schurman, Israel, 1995; Doos, Back- stroum, 2000	Pl Act Obs	compli- ance	The role of employee elected safety representatives was changed from one of controlling and "policing" to that of safety advisors: less hierarchical management system. Improvements in the psychoso- cial work envi- ronment and safety climate, reduction in the incidence of eczema, and reduction in the incidence of occupational accidents.	More collective understanding of safety as every- one's shared responsi- bility.	organiza- tional
Robinson A, Street A	Improving networks between acute care nurses and an aged care assessment team.	2004	Australia Hospital	Hc st	To investigate the possibilities for facilitating the transition of older adults from hos- pital to home through improv- ing the working relationship between nurses and members of a multidisciplinary aged care assess- ment team (ACAT).	AR	Cy Pt SC KB	Street, 2002; Kemmis, 2001; Simon, 1988; Kinch- eloe, McLa- ren, 1994; Street, Robinson, 1995	Pl Act Ref Obs	co-learn- ing	Nurses became more involved in discharge planning. Estab- lishment of col- laborative part- nerships between nurses and ACAT, which enhanced effec- tive discharge planning.	Nurses devel- oped knowledge of services avail- able to support older adults fol- lowing dis- charge.	organiza- tional
Rolfe G, Phillips LS	The develop- ment and evaluation of the role of Advanced Nurse Practi- tioner in Dementia – an action research proj- ect.	1997	Europe Hc serv	Hc st	To develop and evaluate the role of a nurse practi- tioner in demen- tia inductively from first princi- ples.	AR	Pt SC KB	Ebbutt, 1985; Usher, Bryant, 1989; Schon, 1983	Pl Act Obs	consulta- tion	Development of a new role of Advanced Nurse Practitioner (ANP) in dementia; improvement in the service for people with dementia.	Understanding of specific needs of the service, patients and caregivers	organiza- tional
Rowe M et al.	Going to the source: creat- ing a citizen- ship outcome measure by CBPR meth- ods.	2012	North Am Hc serv	disease	To develop a greater under- standing of the construct of citi- zenship and an instru- ment to assess the degree to which individuals, par- ticularly those with psychiatric disorders, per- ceive themselves to be citizens in a multifaceted sense.	CBPR	Pt	Viswanathan et al. 2004; Wallerstein, Duran, 2006; Fine et al. 2003	Pl Act Ref	consulta- tion	Development of an instrument to help practi- tioners and researchers develop more targeted and effective citizen- ship interven- tions and approaches for persons with mental illnesses and to identify areas of desired change and action to fully achieve specified aspects of citi- zenship.	Discussion about citizenship meaning.	organiza- tional

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Author	Title	Year	of origin/ context	Population	Aim/purpose	Approach	princi- ples	Cited authors	research cycle	participa- tion	Social change	Knowledge building	Domain
Rowley J, Taylor B	Dying in a rural residen- tial aged care facility: an action research and reflection project to improve end-of-life care to resi- dents with a non-malig- nant disease.	2011	Australia He serv	Hc st	To examine ways in which nursing care could be provided to maxi- mize the likeli- hood of a good death, to identify barriers nurses perceived to pre- vent optimal end- of-life care to dying residents and to explore the relationships between nurses and relatives of the dying resi- dent, with the intention of improving care.	AR	Cy SC	Taylor 2006	Pl Act	co-learn- ing	Development of strategies for sharing the issues with their colleagues and raising staff awareness.	Participants understood that they could be proactive in improving the care they give to people dying from a non- malignant dis- case. Understanding of the need to improve various aspects of end- of-life care.	organiza- tional
Sanarers D, Heliker D	Implementa- tion of an Evidence- Based Nurs- ing Practice Model: Disci- plined Clini- cal Inquiry.	2002	North Am hospital	Hc st	To describe the implementation of a nursing pro- cess change model, Disci- plined Clinical Inquiry (DCI).	AR	Pt KB SC	Greenwood, Levin, 1998; Stringer, 1996	Pl Act Refl	compli- ance	Nurses were empowered to become reflec- tive practi- tioners, compe- tent in problem solving and evi- dence-based practices, colla- borators, change agents, and patient advocates.	Training of skills like flexibility, practicality, and partnerships between acade- mia and clini- cians.	organiza- tional
Spirig et al.	The Advanced Nursing Prac- tice Team as a Model for HIV/ AIDS Care- giving in Switzerland	2010	Europe Hospital	Hc st	To enhance nurs- ing care at the HIV clinic.	PAR	Pt Cy KB SC	Lewin, 1946; Titchen, Bin- nie, 1994	Pl Act Obs	co-learn- ing	Specialization of each nurse in a self-selected topic within HIV/AIDS care.	Nurses on the team became more educated and refined their clinical expertise because they were offered a coordinated range of skills, expertise, and clinical experi- ence in a setting of interdisciplin- ary support.	organiza- tional
Strandmark M, Rahm G	Development, implementa- tion and evaluation of a process to prevent and combat workplace bullying.	2014	Europe Hospital	Hc st	To develop and implement an intervention pro- gram in collabo- ration with workplace per- sonnel, to evaluate the process as a vehi- cle to prevent and combat bullying.	CBPR	none	Minkler, Wallerstein, 2008	Pl Act	co-opera- tion	The atmosphere at the work- place improved; collaboration between and within the group was stronger; and the supervisor worked continu- ously to prevent and combat bul- lying, using the humanistic values sug- gested.	Employees were more aware of bullying pro- blems.	organiza- tional
Thach SB, Eng E, Thomas C	Defining and Assessing Organiza- tional Com- petence in Serving Com- munities at Risk for Sex- ually Trans- mitted Dis- eases.	2002	North Am Hc Serv	Hc st	To develop an assessment tool to help health agencies enhance their capacity to provide sexually transmitted dis- ease (STD) care to communities at risk and close the gap of racial dis- parities in health.	AR	Су КВ	Denzin, Lin- coln, 1994	Pl Act	co-option	A method to assess an agency's organi- zational compe- tence was developed; the organizational competence of agencies serv- ing communities at risk for STDs was defined.	None.	organiza- tional
Tolson D et al.	Constructing a New Approach to Developing Evidence- Based Prac- tice with Nurses and Older People.	2006	Europe Hc Serv	Hc st	To develop approaches to promote the attainment of evi- dence-based nurs- ing care.	AR	Pt Cy	Reason, Bradbury 2008	Pl Act	co-learn- ing	Construction of an internet- based, practice- development college. A pro- cedural model for developing and demonstrat- ing care guid- ance was piloted.	Researchers understood prac- tice development and ways to work with nurses and older people.	organiza- tional

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			Country/city of origin/				Cited princi-		Action research	Type of participa-		Knowledge	
Author	Title	Year	context	Population	Aim/purpose	Approach	ples	Cited authors	cycle	tion	Social change	building	Domain
Ullrich S, McCutch- eon H, Parker B	Reclaiming time for nurs- ing practice in nutritional care: outcomes of implement- ing Protected Mealtimes in a residential aged care setting.	2011	Australia Hc Serv	Hc st	To improve nurs- ing practice in nutritional care.	AR	Pt Cy KB SC	2001, Rea- son, Brad- bury 2006; Stringer, 2007	Pl Act Obs	consulta- tion	Protected Meal- times was tai- lored for the residential aged care unit by changing nurses' schedules.	Understanding and extension of nurses' roles in nutritional care.	organiza tional
Van Heer- den C, Marren C, van Rensburg ESJ	Strategies to sustain a quality improvement initiative in neonatal resuscitation.	2016	Africa Hospital	Hc st	To explore and describe the exist- ing situation in the specific dis- trict hospital in order to develop strategies to sus- tain the quality improvement ini- tiative implemen- ted in neonatal resuscitation for decreasing neona- tal mortality.	PRAR	Cy SC	Piggot-Irvine E, 2009	Pl Act	consulta- tion	Staff attitude changed towards neona- tal resuscitation.	Improvements in the nurses' knowledge regarding neona- tal resuscitation.	organiza tional
Van Bilijon H <i>et al.</i>	An Action Research Approach to Profile an Occupational Therapy Vocational Rehabilita- tion Service in Public Healthcare.	2015	Africa Hc Serv	Hc st	To design, develop, refine, validate and dis- seminate a tool that occupational therapists work- ing in public health care can use to profile their vocational reha- bilitation services.	AR	Pt SC KB	Koshy, Kosy, Waterman, 2011; White- law et al. 2003; McNiff, 2010; McNiff, Whitehead, 2006; Zuber- Skerritt, 2009; Rea- durry, 2008	Pl Ac Ref	consulta- tion	Vocational rehabilitation tool was cre- ated.	Reflection on the tool.	organiza tional
Vanderzalm J <i>et al.</i>	Fostering Interprofes- sional Learm- ing in a Rehabilita- tion Setting: Development of an Interprofes- sional Clini- cal Learning Unit.	2013	North Am hospital	Hc st	To enhance inter- professional (IP) clinical education and improve patient care in a rehabilitation set- ting.	CBPR	Pt	Shalowitz et al., 2009	Pl Act	consulta- tion	Creation of an IP Learning Environment, Enhanced IP Communica- tion.	Increased Awareness of IP Practice, Role Clarifica- tion.	organiza tional
Vidal DAV et al.	Nursing process towards the prevention of falls in the institutional- ized elderly: action research	2013	Latin Am Hc Serv	Hc st	To propose inter- action between elements of nurs- ing process in institutionalized elderly patients' records to prevent falls.	IA	Pt Cy KB SC	Thiollent, 2008. Grittem, Meier, Zago- nel; 2008	Pl Act Ref	compli- ance	Elements ori- ented to prevent falls were included in nursing process and in patients' records.	Knowledge about legislation of elderly rights.	organiza tional
Wagner LM et al.	Implementa- tion of Men- tal Health Huddles on Dementia Care Units	2015	North Amer- ica Hc Serv	Hc st	To support staff in discussing and managing client responsive behaviors in long- term care by using huddles.	PAR	Pt SC	Huijbregts et al., 2012; Sidani, Epstein, 2003; Mink- ler, Waller- stein, 2008; Chap- man, 2009; Sidan, Bra- den,1998	Pl Act Obs Ref	collective action	Improved staff collaboration, teamwork, sup- port, and com- munication when discussing specific respon- sive behaviors.	Not mentioned.	organiza tional
Walsgrove H, Fulbrook P	Advancing the clinical perspective: a practice development project to develop the nurse practi- tioner role in an acute hos- pital trust.	2005	Europe hospital	Hc st	To investigate awareness and foster understand- ing of the concept of the nurse prac- titioner and to facilitate and sup- port the develop- ment of nurse practitioner roles within an acute hospital trust.	AR	Cy Pt SC KB	Meyer 2000, Gray 2004; Pope, Mays 2000; McNiff <i>et al.</i> 1996; Rea- son, Brad- bury 2001; Manley, McCormack, 2003; Hart, Bond 1995; Denscombe 1998	Pl Act Obs	compli- ance	A Nurse Practi- tioner Develop- ment Group (NPDG) was established, which helped to facilitate the development of NP posts.	A better under- standing of the concept and sup- port for NP posts were enhanced across the trust.	organiza tional

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Author	Title	Year	Country/city of origin/ context	Population	Aim/purpose	Approach	Cited princi- ples	Cited authors	Action research cycle	Type of participa- tion	Social change	Knowledge building	Domain
Wilks L, Boniface G	A study of occupational therapist's perceptions of clinical governance.	2004	Europe hospital	Hc st	To understand the perceptions of occupational ther- apists regarding clinical gover- nance and con- tinuing profes- sional develop- ment (CPD) and implement changes.	AR	Pt SC Cy	Grundy, 1982; Carr, Kemmis, 1986; Rob- son, 1997; Green- wood, Levin, 1998; Hart, 1998; Hart, Bond, 1995; Pasmore, 2001	Pl Act Refl	co-opera- tion	Prioritization [of time for CPD.	Reflection about CPD.	organiza- tional
Zeitz K et al.	Working together to improve the care of older people: a new frame- work for col- laboration	2010	Australia hospital	Cycle	To identify the care issues experi- enced by older people in the acute setting that could be improve through a collab- orative approach to action.	coopera- tive inquiry	Pt Cy SC KB	Reason, Heron 2008; Reason 2003, Tee <i>et al.</i> 2007	Pl Act	consulta- tion	An emerging conceptual framework was constructed to base improve- ments to the basic elements of care.	Comprehension that traditional consumer engagement falls well short of participation and empower- ment.	organiza- tional

Act, Action; AR, Action research; CAR, Collaborative action research; CBPR, Community-based participatory research; CCAR, Community-based collaborative action research; CPPR, Community-partnered participatory research; Cy, Cycle of planning, action, observing, reflection; Cycle, Cycle of life populations; Hc Serv, Health-care service; Hc St, Health-care stakeholders; IA, Investigación acción; IAP, Investigación acción participatoria; KB, knowledge building; Latin Am, Latin America; North Am, North America; Obs, Observing; PA, Pesquisa ação; PAP, Pesquisa ação participante; PAR, Participatory action research; PHC, Primary health care; PI, Planning; Pt, Participation; Ref, Reflection; SC/PS, Social change/problem solving.

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