ABSTRACT

Objective: The study's purpose has been to identify the main publications relating to the use of Freirean categories in nursing undergraduate education. Methods: This integrative literature review was performed by searching publications in the following databases: Literatura Latino-Americana e do Caribe em Ciências da Saúde (LILACS) [Latin American and Caribbean Literature in Health Sciences], Medical Literature Analysis and Retrieval System (MEDLINE), and Base de Dados de Enfermagem (BDENF) [Nursing Database]. A total of 482 studies were found, of which only 13 met the inclusion criteria. Results: The following categories were identified: “Dialogue and Autonomy”; “Raising awareness with a view to the training of people focused on the development of critical, reflective and participatory skills”; and “Problematization methodology as a form of humanizing education for a humanized care”. Conclusion: It is concluded that the incorporation of Freirean categories into nursing education is fundamental for a dialogic education. Such incorporation leads to humanizing education, making it possible for students/future professionals to deliver humanized care.

Descriptors: Nursing education, teaching, learning.
RESUMO

Objetivo: Identificar as principais publicações relacionadas à categorias Freireanas no ensino de graduação em enfermagem. Método: Revisão Integrativa de literatura a partir da busca nas bases Literatura Latino-Americana e do Caribe em Ciências da Saúde, Sistema Online de Busca e Análise de Literatura Médica, Base de Dados de Enfermagem. Obteve-se 482 estudos, destes apenas 13 atendiam aos critérios de inclusão. Resultados: As categorias emergentes foram: diálogo e autonomia; tomada de consciência com vistas a formação de sujeitos críticos, reflexivos e participantes; metodologia da problematização para uma educação humanizante e um cuidar humanizado. Conclusão: Conclui-se que a incorporação das categorias Freireanas no ensino de enfermagem é fundamental para um ensino com trevasias dialógicas. Tal incorporação tece uma educação humanizante, caminho para o cuidado humanizado do discente/futuro profissional. Descritores: Educação em enfermagem; Ensino; Aprendizagem.

RESUMEN

Objetivo: identificar las principales publicaciones relacionadas con las categorías Freireanas en la docencia de licenciatura en enfermería. Método: revisión Integrativa de la literatura a partir de la búsqueda en las bases de la literatura latinoamericana y caribeña en Ciencias de la salud, sistema online de búsqueda y análisis de la literatura médica, base de datos de enfermería. Se obtuvieron 482 estudios, de estos sólo 13 cumplieron los criterios de inclusión. Resultados: las categorías emergentes fueron: diálogo y autonomía; Sensibilización con vistas a la formación de sujetos críticos, reflexivos y participantes; Metodología de cuestionamiento para una educación humanizadora y un cuidado humanizado. Conclusión: se concluye que la incorporación de las categorías Freireanas en la enseñanza de enfermería es esencial para una enseñanza con cruces dialógicas. Esta incorporación teje una educación humanizadora, el camino hacia el cuidado humanizado del estudiante/futuro profesional. Descritores: Educación en Enfermería; Enseñanza; Aprendizaje.

INTRODUCTION

Paulo Reglus Neves Freire (1921-1997), a Brazilian educator and philosopher, is considered one of the most remarkable education thinkers in the world. His most famous book (Pedagogy of the oppressed) has been published in several languages (English, Spanish, Hebrew, etc.). The contributions of the author’s works have a wide scope of applications, such as in popular education, literacy, and raising political awareness among young people and adults. This work is also important in other fields, such as nursing.

Freire reflects on the educator-student relationship, with emphasis on the practice of political-pedagogical dialogue between these two people and on ethical virtues, with the purpose of enabling autonomy and citizenship with responsibility so that educators and students acquire and critically recreate knowledge. For the author, students must view themselves as subjects capable of producing knowledge. Teaching is not transferring knowledge but creating possibilities of producing it or constructing it.

In the teaching-learning process, subjects are not each other’s objects. Those who teach learn by teaching and those who learn teach by learning. Teaching does not exist without learning. The author makes a critique of “banking” knowledge, showing the importance of what he calls “epistemological curiosity”, in which the subject becomes critical and reflective, and goes in search of knowledge.1

Historically, it is known that Brazilian education is marked by traditional teaching, in which the transmission of knowledge occurs in a repetitive, unilateral way from educator to student. This fact is no different in the history of nursing education.2

In nursing, although there have been changes in the curricula of undergraduate courses and discussions of new pedagogical proposals, the medical-hospital model is predominant. The purpose of this model is to train nurses focusing on healing and hospital care.3

Reinforcing the need for changes in the nurses’ training, with emphasis on the traditional formative paradigm, and encouraging innovation movements in the teaching-learning process, the Diretrizes Curriculares Nacionais (DCNs) [National Curricular Guidelines] for the nursing undergraduate courses were instituted in 2001.4

The DCNs states that nursing professionals should have generalist, humanist, critical, reflective, and qualified skills based on scientific and intellectual rigor. They should be guided by ethical principles, having the capacity to use knowledge and implement intervention measures in the face of the most prevalent health problems in the national epidemiological context, emphasizing its workplace and identifying the bio-psycho-social dimensions of its determinants. Having a sense of social responsibility, they should be committed to citizenship with a holistic vision of human beings’ health. Finally, they should be capable of working in Basic Education and Professional Education in Nursing.4

The author’s ideas contributed to changing the traditional formative paradigm in nursing education. He proposes “a liberating and problematizing pedagogy, which is an important philosophy for education to be understood as a political action so that social reality can be potentially transformed”.2:276 Therefore, this study identified the main publications relating to the use of Freirean categories in nursing undergraduate education.

METHODS

This is an integrative literature review, a type of methodological approach that has been used in nursing research for the development of reviews since the 1980s.5 It allows summarizing the available evidence on a given subject, pointing out the current state of knowledge and gaps that can be addressed by new studies. Consequently, the understanding of the subject can be deepened.6

The review was based on six phases.7 According to the first phase, the following theme was defined: “Freirean categories in nursing undergraduate education”. The following guiding question was also developed: “what Freirean categories can be found in publications on nursing undergraduate education?”
The literature search was conducted in the second phase using the following databases: Literatura Latino-Americana e do Caribe em Ciências da Saúde (LILACS) [Latin American and Caribbean Literature in Health Sciences], Medical Literature Analysis and Retrieval System (MEDLINE), and Base de Dados de Enfermagem (BDENF) [Nursing Database]. Furthermore, the following nursing descriptors and keywords were used combined with “AND” and “OR” Boolean operators: Paulo Freire, freireana, freireano, problematizadora, and problematizador. The inclusion criteria were online articles in Portuguese addressing the Paulo Freire’s contributions nursing undergraduate education. Only articles published from 2001 to 2015 were considered because the DCNs for the nursing undergraduate courses were instituted in 2001.

A total of 482 articles were initially found. After applying the inclusion criteria, 284 articles remained. Of them, 220 were excluded because they were duplicates or their titles were unrelated to the search question. After reading the remaining 64 articles, 51 were excluded because they did not answer the search question; they were reflection articles, reviews, experience reports, or preliminary notes; they were part of the sample determined by the two searches; or their results were found in different journals. Hence, a final sample of 13 articles was determined. Figure 1 illustrates how the two searches were carried out in this stage.

In the third phase, information from the selected studies was extracted through the proposed data collection tool. In the fourth phase, the articles were analyzed critically by each author. In the fifth phase, the results were interpreted and synthesized to determine the categories. Then, the articles were summarized, and the results are both presented and discussed as follows.

RESULTS

Table 1 presents the 13 articles selected for this review. They are organized according to the following variables: title, authors, year of publication, and evidence level. The articles were sorted by year of publication and labeled using letters and numbers (A1, A2, A3, etc.) in order to facilitate identification. The classification of the evidence levels followed the literature.6

Table 1 - Distribution of the selected studies according to article code, title, authors, year of publication, and evidence level (EL).

<table>
<thead>
<tr>
<th>Article code</th>
<th>Title</th>
<th>Authors</th>
<th>Years</th>
<th>EL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Virtual learning object for nursing diagnostic reasoning applied to the tegumentary system</td>
<td>Cecilia Passos Vaz da Costa, Maria Helena Barros Araújo Luz.</td>
<td>2015</td>
<td>VI</td>
</tr>
<tr>
<td>A2</td>
<td>Teaching first aid from the perspective of a problem-oriented curriculum</td>
<td>Mariana Dolce Marques Luís, Carlos Lopes Júnior, Emiliana de Omena Bomfim, Carla Pedrosa Marega Luciano Gomes, Shirlene Pavelqueires.</td>
<td>2014</td>
<td>VI</td>
</tr>
<tr>
<td>A3</td>
<td>Student participation in the development of the pedagogical project of the nursing undergraduate course</td>
<td>Natália Maria Freitas e Silva Maia, Benevina Maria Vilar Teixeira Nunes, Maria Eliete Batista Moura.</td>
<td>2013</td>
<td>VI</td>
</tr>
<tr>
<td>A4</td>
<td>Expressions of the didactic knowledge of an experienced nursing educator’s content</td>
<td>Vânia Marli Schubert Backes, Jose Luis Medina Moya, Marta Lenise do Prado, Jouhanna do Carmo Menegaz, Alexandre Pareto da Cunha, Bruna de Souza Francisco.</td>
<td>2013</td>
<td>VI</td>
</tr>
</tbody>
</table>
As can be seen in Table 1, three articles were published in 2013, which was the predominant year of publication. Concerning the evidence level, all articles (13) had level VI, which are in line with evidence from a single descriptive or qualitative study.

During the reading phase, it was identified that five articles (39%) were carried out in the Southeast Region of Brazil, three (23%) in the Northeast Region, two (15%) in the South Region, two (15%) in the North Region, and one (8%) did not specify the region. Regarding the journals, 13 were identified as follows: Revista gaúcha de enfermagem; Revista de pesquisa cuidado é fundamental online; Investigación y educación en enfermería; Texto e contexto enfermagem; Revista da escola de enfermagem da USP; Revista baiana de enfermagem; Revista latino americana de enfermagem; Cogitare enfermagem; Brazilian Journal of Nursing; Acta paulista enfermagem; Revista de enfermagem da UERJ; Ciência, cuidado e saúde; and Revista Brasileira de Enfermagem.

Table 2 shows the sample characterization according to research and approach types, data collection, and analysis, and study participants. It is noteworthy that 12 (92%) articles employed a qualitative approach, eight (61%) used the interviews for data collection, and five (39%) used content analysis. A total of 497 people participated in these studies, of which 388 (78%) were nursing students.

Table 2 - Characterization of the articles according to article code, type of research and approach, data collection, data analysis, and study participants.
Paulo Freire's contributions to nursing undergraduate education found in the selected articles were grouped into three categories. The category "Dialogue and Autonomy" is composed of 4 articles (A4, A7, A10, and A11), which regarded problematizing pedagogy as dialogic and mediator tool for autonomy, contributing to the training of future nursing professionals.

The category "Raising awareness with a view to the training of people focused on the development of critical, reflective and participatory skills" is composed of 8 articles (A1, A2, A3, A5, A6, A11, A12, and A13), which show the importance of the students' practice at communities as well as the importance of valuing and recognizing the knowledge and experiences of both in relation to interaction, which encourages critical-reflexive thinking.

The category "Problematization methodology as a form of humanizing education for a humanized care" is composed of 4 articles (A8, A9, A10, and A11), which address more interactive and humanized relationships between educators and students, which can cause future professionals to offer more humanized care as well. They also address the importance of research on student education.

**DISCUSSION**

The articles addressing the relationship between education route and expressions of didactic knowledge of the content highlighted the lack of pedagogical qualification during the initial professional education and the importance of working according to the Freirean perspective, as well as according to other theoretical perspectives. Educators need to seek continuing education; socialization with their peers; professional, teaching, and life experiences; and theoretical and methodological references that enable emancipation by teaching, exercise the relationship with the content domain, and "more dialogical, problematizing and critical-creative attitudes toward themselves and their students."3,8,4

The study A7 evaluated whether educational chats could be used as teaching tools and was conducted with 190 subjects. Of them, 185 were students, 3 were professors, and 2 were monitors. Its findings showed that educational chats allowed the educators to use the students' knowledge and incorporate it into the discussion, improving problematization. The dialogical relationship among students and between educators and students contributes to the production or construction of knowledge. The students interact with each other and the educator only interferes at the end, elucidating some points that were not clear to the students.10

"The discussions that took place in the educational chats allowed content problematization, enabling the construction of new knowledge."10,74 It also allows students to show responsibility, management, and make decisions, indicating that their autonomy is maturing while they acquire knowledge.

The article A10 addressed the professor-student relationship in nursing with the use of a focus group composed of six nursing undergraduate students. It revealed how the lack of autonomy is detrimental to their training. "The relationship between educator and student was presented as stressful. They point out that the students lacked autonomy during the teaching-learning process, which would promote dependence and lack of security in nursing practice."11,47

The study A11 addressed the implementation of Problematizing Pedagogy in the teaching and learning process experienced by nursing interns within the hospital setting. It was conducted with 26 interns and showed that when the students' autonomy and individualities were

<table>
<thead>
<tr>
<th>Article code</th>
<th>Research and approach types</th>
<th>Data Collection</th>
<th>Data analysis</th>
<th>Study participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5</td>
<td>Exploratory study with a qualitative approach</td>
<td>Interviews</td>
<td>Discourse Analysis</td>
<td>Nursing students (n: 10), Nursing professors (n: 10), Nurses (n: 8)</td>
</tr>
<tr>
<td>A6</td>
<td>Descriptive-exploratory study with a qualitative approach</td>
<td>Interviews</td>
<td>Content analysis</td>
<td>Nursing students (n: 10), Nursing professors (n: 4)</td>
</tr>
<tr>
<td>A7</td>
<td>Retrospective, documentary study with a qualitative approach; case study</td>
<td>Analysis of educational chat records</td>
<td>Content analysis</td>
<td>Nursing students (n: 185), Nursing professors (n: 3), Monitors (n: 2)</td>
</tr>
<tr>
<td>A8</td>
<td>Documentary analysis with a qualitative approach</td>
<td>Analysis of portfolios and reports</td>
<td>Dialectical Hermeneutics</td>
<td>Nursing students (n:34)</td>
</tr>
<tr>
<td>A9</td>
<td>Descriptive study with a qualitative approach; case study</td>
<td>Interviews</td>
<td>Content analysis</td>
<td>Nursing students (n: 6)</td>
</tr>
<tr>
<td>A10</td>
<td>Qualitative study</td>
<td>Focus group and interviews</td>
<td>Dialectical Hermeneutics</td>
<td>Nursing students (n: 6)</td>
</tr>
<tr>
<td>A11</td>
<td>Qualitative, descriptive study</td>
<td>Questionnaire</td>
<td>Content analysis</td>
<td>Nursing students (n: 26)</td>
</tr>
<tr>
<td>A12</td>
<td>Descriptive-exploratory study with a qualitative approach</td>
<td>Participant observation and interviews</td>
<td>Not specified</td>
<td>Nursing students (n: 13), Nursing professors (n: 4)</td>
</tr>
<tr>
<td>A13</td>
<td>Qualitative study</td>
<td>Interviews and focus group</td>
<td>Collective Subject Discourse and thematic content analysis</td>
<td>Nursing students (n: 41)</td>
</tr>
</tbody>
</table>
respected, an environment favorable for them to improve their decision-making skills is created, indicating a path for training subjects to develop critical and reflective skills as well as promote changes. "The process of assisting, teaching and learning is integrative, dialectical and expanded according to Problematizing Pedagogy."^12,13

Freire says that dialogue is the path by which human beings gain meaning and it is an existential and liberating need.15 In the dialogic theory of action, subjects meet to transform the world together. Problematizing is analyzing problems critically. Problematizing education is based on the dialogical relationship between students and educators, enabling them to learn together through an emancipatory process.14

The author emphasizes that it is necessary to respect each person's autonomy and dignity not as a favor but because it is an ethical imperative, using common sense for decision making.1

Article A1 addressed the use of a virtual learning object based on problematizing education. Twenty-one students participated in the study. Its findings pointed out that the virtual object allowed learning to have individual repercussions by engaging students, culminating in a new way of thinking and doing. Moreover, contextualized knowledge interconnection, reflection on how to gain new knowledge, self-reflection on students' knowledge, participation in the teaching-learning process, and critical actions while making the nursing diagnosis were encouraged.15

Article A2 addressed the first aid training using problematizations and Problem-Based Learning (PBL). Carried out with 110 students (35 nursing undergraduate students and 75 medical undergraduate students), its results revealed that the participants learned dramatically during the training, evidencing that the strategies adopted were valid.16

Article A3 addressed the students' participation in the development of the Pedagogical Project (PP) of a nursing undergraduate course. Twenty-two students participated in the study. It was evidenced that the students did not effectively participate in the development of the PP. It is believed that adopting problematizing education could reverse this situation as nursing students would understand the totality of their education, become active and reflective about it, and problematize it while associating it with reality. Thus, such students, besides participating in the development of the PP, would consciously use it in practice, re-signifying their knowledge about this project.17

Article A5 addressed the experiences of students, professors, and nurses in the supervised internship of an integrated curriculum. Ten students, 10 professors, and 8 nurses participated in the study. Its "results may indicate that the use of active learning methodologies triggered critical reflections within broad health contexts, extrapolating the technical dimension.15,941" In nursing education, a critical understanding of prior experience is essential; therefore, it is necessary to make it possible for students to develop morally. Integrated curricula using problematization can promote critical reflection of professional practice, services, and the health system.

Article A6 assessed popular health education in a nursing undergraduate course. Carried out with four professors and 10 students, the study evidenced that the performance of health education activities based on popular health education allows raising awareness among students and educators, as well as raising critical reflection on their actions. The students and professors believed in the contributions of popular health education to the establishment of the Brazilian Unified Health System. The students, however, needed a more theoretical understanding of popular health education. The study also highlighted that the students need to maintain constant contact with the community as soon as possible for them to become closer to users' reality and experience it. Popular health education can be provided throughout the theoretical and practical academic trajectory and should not be restricted to Basic Care.19

Article A11 showed that banking education, in which the educator is the "owner of knowledge," loses meaning when problematizing pedagogy is used. Knowledge is built through the interaction between the subjects involved in the process and through continuous questioning arising from a collective consciousness.12 The students feel recognized by their clients, strengthening their self-esteem and stimulating them to value ethical attitudes while building relationships with patients. They need to build dynamic relationships based on exchange in a participative way, evidencing a personal transformation.

Article A12 addressed the teaching-learning process in undergraduate education, emphasizing the importance of the professor-student relationship in the classroom aiming at professional training. The study was conducted with 13 undergraduate students and 4 professors. Its findings pointed out that the best way of teaching requires that professors stimulate students by engaging them in practical classes, valuing their experiences, and letting them be part of the class planning.20

Article A13 addressed the construction of the education process in a nursing undergraduate course. A total of 41 students participated in the study, which pointed out that traditional and banking education can influence and limit the future nurses' ability to search for original and adequate solutions to many problems, besides limiting their critical-evaluation capacity. Regarding the critical-reflexive education process, the students' statements revealed that the educator has a fundamental role in promoting and conducting activities with the aim of developing the students' critical thinking. The partnership between educators and health services also determines the movement of action-reflection-transformative action.21

Freire says that there is no man without a world, and there is no world without a man. This relationship among people, the world, and reality imply transformation, in which products affect actions and reflections. It is through experience that people develop their action-reflection.22

"Problematization Methodology imposes on us the critical knowledge of reality, providing the exercise of the praxis, which includes action-reflection-new action (which is intentionally
Paulo Freire’s studies originated the concept of problematization, emphasizing that the problems to be studied need to use a real scenario. Education and thematic research are part of the same process: the content must always be updated, expanded, and critically based on reality; it should be continuously transformed considering its various facets. It should create permanent cognitive challenges for educators and students. For Freire, the more the educators stimulate their students to perceive themselves as beings of and in the world, the more these students will be motivated to respond to and overcome new challenges.14

Concerning the fine line between theory and philosophy of education, Paulo Freire’s theories have deeply influenced the construction of a reflexive nursing education.24

Article A8 addressed the nursing undergraduate students’ perceptions of Freirean problematization applied in classes of a discipline. It was carried out through a documental analysis of 34 students’ reports. According to its findings, problematization applied while teaching didactics to nursing students promotes humanizing education. “The methodology used in the discipline was a form of humanization, in the sense of giving the nursing student the possibility of strengthening their connection with the world, their relationships, and university teaching”.25,31

Study A9 addressed research practice in nursing care and was carried out with 6 undergraduate students. It showed that research practice is in line with nursing care, making it possible to carry out actions grounded in science. By undertaking actions and putting themselves in the other’s place, students validate the knowledge. The students “discovered themselves and valued the learning process and how much the acquired knowledge can influence their relationship with people”.26

Article A10 pointed out the need to reorganize the course, as stated by the undergraduate students. The reason is that they regarded learning through practice as the most human path to be followed. Moreover, they pointed out that there is no coherent coordination between theory and practice in the course’s pedagogical model. The results highlighted the offer of technical education without disciplines that favor humanization, as reported by the participants.11

Study A11 indicated that educators are more valued and respected when they assume an ethical posture with students/future professionals. For Freire, the more the educators adopt a more humanized attitude, which is more accessible and valued the learning process and how much the acquired knowledge can influence their relationship with people.28

The convergence between Paulo Freire’s emancipatory educational practices and nursing care can stimulate the development of a new vision by students, thus enabling a more humanized, affective, and effective practice.

Research can be further improved by using Freire’s theoretical and methodological ideas, making it possible for students to problematize and deal with themes as well as intervene in reality. By using these ideas in health and nursing research, challenges can be overcome. The main challenge is to use problematizing education to initiate liberating dialogue.28

CONCLUSION

Bearing in mind the aforementioned, it is concluded that the use of Freirean categories in nursing undergraduate education is fundamental because it strengthens the construction and exchange of knowledge, enhances the educator-student and student-community relationships, encouraging the exchange of experiences and acknowledgment of peoples’ experiences. Consequently, it is possible to teach through dialogue and dialogical pedagogy.

Such incorporation is shown, for instance, when students participate in the development of the course’s pedagogical project so that they can reflect on the education process. It is imperative to encourage students to become critical and reflective subjects while dealing with experiences during undergraduate education. A humanizing education is urgently needed, which is a path to humanized care delivered by students/future professionals.

Conducting more studies to seek and deepen the educators’ perception and knowledge since they are the mediators of the process of constructing the students’ knowledge.

Herein, it was possible to identify the contributions of the Freirean categories towards the nursing undergraduate education. Nonetheless, discussions and reflections involving all people that are responsible for or participants in nursing education should be advanced. Critical and creative care, with emphasis on care/education based on the Freirean categories, should be permanent.

REFERENCES


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