Promotion of a primary healthcare philosophy in a community-based nursing education programme from the students’ perspective

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Background. Community-based education (CBE) serves as a primordial instrument in the implementation of primary healthcare (PHC). Learning experiences in community-based settings provide students with learning opportunities, as they are actively engaged in PHC-associated activities in under-resourced communities. Many nursing schools in higher education integrated and implemented a CBE programme with an end-goal of becoming healthcare practitioners who are responsive to the needs of the community.

Objectives. To establish how PHC philosophy is promoted through a community-based nursing education programme.

Methods. The study was non-experimental and cross-sectional with a quantitative approach and was done at a selected higher education institution in KwaZulu-Natal, South Africa. A total of 118 participants were selected using the non-probability convenience sampling technique. A self-report questionnaire was distributed to the participants; 91 questionnaires were completed and returned – a response rate of 73.3%. Ethical clearance was obtained from the University of KwaZulu-Natal Ethics Review Committee. Participation was voluntary, informed consent was obtained, and other ethical principles were respected. Data were analysed with the Statistical Package for Social Sciences (SPSS). Descriptive and analytical analysis was used to analyse the data.

Results. The participants reported exposure to community-based learning from the first until the fourth year of their study programme. Participants (69.9%) indicated that their learning activities had involved members of the community. The community-based learning projects, which mostly promoted a PHC philosophy, included prevention of illness, injuries and social problems (90.1%), health promotion (89%) and engaging communities in community-based learning activities to promote their self-reliance and self-determination (76.9%).

Conclusion. Findings revealed that the community-based learning experiences of students promoted a PHC philosophy and that underprivileged community settings provided a rich learning environment.


The traditional teaching approach has been criticised for not equipping health professionals with the necessary knowledge and skills to work in rural, remote and under-resourced communities. The conventional approach focuses on hospital-based, curative-focused teaching, which relies on sophisticated technology. Furthermore, upon graduation, many nurses are reluctant to work in rural, underprivileged areas, where resources are scant and the focus is on healthcare and prevention. This instructional approach hinders the equal distribution of health professionals in South Africa (SA) and therefore the quality of services provided to its citizens. This, in turn, impedes the promotion of primary healthcare (PHC).

The World Health Organization (WHO) defines PHC as ‘essential healthcare based on practical scientifically sound and socially sound acceptable method and technology, universally accessible to all in the community through their full participation; at an affordable cost, and geared toward self-reliance and self-determination’. PHC is therefore an approach to healthcare that promotes the attainment by all people of a level of health that will permit them to live socially and economically productive lives. Healthcare is essential, practical, socially and scientifically sound (evidence based), ethical, accessible, equitable, affordable, and accountable to the community. Furthermore, PHC is more than primary medical or curative care or a package of low-cost medical interventions for the poor and marginalised.

To address these challenges, the WHO, International Council of Nurses (ICN) and South African Nursing Council (SANC) recommended the implementation of a community-based education (CBE) programme as part of the teaching curriculum in the training of nurses. CBE refers to learning activities that take place in a particular setting, i.e. the community setting. Students are allocated to different communities (urban, peri-urban and rural or semi-rural) to undertake activities relevant to community health needs and that address community health-related needs. CBE may contribute to solve the inequity in service delivery by producing healthcare professionals who are willing and able to work in underserved areas, particularly rural communities. CBE also offers opportunities for students to learn in situations similar to those in which they might work later in their professional lives. It may equip students with transferable core competencies that they would not learn otherwise, such as leadership skills, the ability to work in teams, and the capability to interact with the community.

The South African Department of Education (DoE) and the Council on Higher Education (CHE) endorse the implementation of CBE as a responsive educational method. Furthermore, the Department of Health (DoH) (SA), in the 1997 White Paper on the Transformation of the Health System, highlighted that in order to align nursing education with PHC the curriculum should be based on community needs and linked to PHC. Gumbi and Muller emphasised that the curriculum of health professionals should be linked to PHC.

Mekwi states that CBE is a tool to foster PHC, as it affords students the opportunity to learn by providing services to under-resourced communities. Various higher education institutions for health professionals, including
nursing institutions, have responded positively by allowing students to engage in PHC-associated activities. However, little is known about whether this programme promotes the PHC approach. This article presents the findings of a study aimed at exploring whether CBE activities promote PHC.

Methods
Following a quantitative approach and a non-experimental, explorative, descriptive design, a cross-sectional survey was used to explore students’ perspectives of whether CBE promotes PHC. Non-probability convenience sampling was used to invite 118 students to participate in the study. They included second-, third- and fourth-year students who were studying for a Bachelor in Nursing degree at a university-based College of Nursing in KwaZulu-Natal, South Africa. The students were selected to participate, as they had been exposed to the CBE programme. First-year students were excluded because of the limited exposure to community-based learning at first-year level. Permission to conduct the study was obtained from the University of KwaZulu-Natal Ethics Review Committee. Participation was voluntary and informed consent was obtained from participants after the study had been thoroughly explained to them. Questionnaires were distributed to the participants; 91 were completed and returned – a response rate of 73.3%.

Experts in CBE and PHC at the University of KwaZulu-Natal, and the related literature and studies, facilitated the measurement of validity of the instrument. To test the consistency of the measurements, a pilot study was conducted with 6 participants, who were not included in the final analysis. Descriptive and analytical statistics were used in the data analysis. Cronbach’s α was 0.851 and a p-value ≤0.5 was considered statistically significant.

Results
Research setting
The selection of clinical training sites in the community is considered an important aspect of CBE for an effective process of knowledge construction. Students are placed in urban, suburban and informal settlements and rural communities. The communities around the university are used extensively as a learning environment to give students an opportunity to understand the capacities and initiatives of the communities they serve. Nearby PHC clinics, schools and other community centres are used. These communities all provide rich information with regard to the raw content material and a variety of health problems that could be used as a frame of reference for CBE.

Students are involved in CBE from their first to their fourth year of study and exposed to learning in various community settings, including PHC facilities and other community sectors. Their community-learning activities were carried out in old-age homes (82.4%), creches (24.4%), general hospitals (94%), PHC clinics (34.4%) and psychiatric settings (36.7%). Participants indicated that their CBE activities promoting PHC had involved community members from different sectors. The study revealed that 69.9% of respondents indicated that their community-learning activities had involved members of the community and 85.7% had participated in the implementation of community projects. It was found that these activities involved school teachers (95.6%), local leaders (91.2%), church leaders (44%), youth leaders (60.4%), community health workers (89%), nurses (87.95) and community members (94.3%).

The student learning experiences also reflect identification of community health problems.

The results of this study showed that 97.8% (n=89) of students had participated in family assessment, while 100% (n=91) had conducted epidemiological studies. Additionally, the findings indicated that 100% (n=91) had carried out community assessment to identify community health needs, and 95.6% (n=81) had validated needs from the community to identify health need priorities.

Eighty-nine per cent of participants had been involved in CBE activities that focused on health promotion, 90.1% on prevention of illness, injuries and social problems, 52.7% on treatment of common illnesses and injuries at home, 45.1% on rehabilitative care, which was associated with learning in an informal settlement, and 76.9% on promoting community self-reliance and self-determination.

The focus of CBE projects can be seen in Table 1.

The study indicated that students were exposed to many aspects of PHC in various learning environments, such as classrooms, communities, PHC facilities and hospitals. In these CBE environments, 71.4% of participants learnt about health education with regard to preventing diseases and promoting health, 52.7% were exposed to learning about oral rehydration for children and 57.1% learnt about breastfeeding. The study also revealed that 62.6% had an opportunity to learn about family planning for males and females and 70.3% learnt about prevention of malnutrition in children. Furthermore, 58.2% could familiarise themselves with first-aid measures at home, 52.7% with monitoring the growth of children and 60.4% with immunisation of babies.

Table 1. Focus of community-based learning projects

<table>
<thead>
<tr>
<th>Focus of community-based project</th>
<th>Yes, n (%)</th>
<th>No, n (%)</th>
<th>Total, n (%)</th>
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<tbody>
<tr>
<td>Promotion of health (health education on nutrition, sexuality, breastfeeding, environmental health, waste disposal, safe and clean water)</td>
<td>81 (89)</td>
<td>10 (11)</td>
<td>91 (100)</td>
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<td>Prevention of illness, injuries and social problems (e.g. immunisations, family planning, health education on prevention of sexually transmitted infections, chronic illnesses (e.g. hypertension) and teenage pregnancy)</td>
<td>82 (90.1)</td>
<td>9 (9.9)</td>
<td>91 (100)</td>
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<tr>
<td>Treatment of common illnesses and injuries at home (e.g. treatment of lice, diarrhoea and vomiting, flu, minor burn injuries)</td>
<td>48 (52.7)</td>
<td>43 (47.3)</td>
<td>91 (100)</td>
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<tr>
<td>Rehabilitative care (e.g. home management of patients with deformities, elderly patients with chronic illnesses, and mentally ill clients in the community)</td>
<td>41 (45.1)</td>
<td>50 (54.9)</td>
<td>91 (100)</td>
</tr>
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<td>Promoting community self-reliance and self-determination (e.g. identifying, accessing and using available resources in the community to address health-related issues)</td>
<td>70 (76.9)</td>
<td>21 (23.1)</td>
<td>91 (100)</td>
</tr>
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</table>
The results revealed that CBE had given 70.3% of the participants the opportunity to learn about community involvement in community-based projects, 38.5% had become involved in advocating for vulnerable people and 50.5% learnt about educating the community about waste disposal. The study showed that 56.7% learnt about ways to keep water clean if there is no safe water supply and 51.6% about caring for terminally ill patients at home. Moreover, 57.1% acquired knowledge about women empowerment and 59.3% about collaborating with other sectors to address health issues in the community. The findings indicated that 94.3% of the participants had been involved in fundraising for community projects, while 80.2% had participated in helping the community to take responsibility for their health and mobilising resources for promoting community self-determination.

The community-based learning projects that participants were exposed to were associated with the promotion of health; prevention of illnesses, injuries and social problems; home treatment of common illnesses and injuries; rehabilitative care and community self-reliance and self-determination.

**Discussion**

CBE is an approach to teaching and learning that exposes students to community nursing from an early stage of the course until their fourth year. This takes place in a variety of real-world settings, including the community and specialty learning environments as stated by Mthembu and Mtshali. Such early exposure to a community setting aims to familiarise students with PHC principles to equip them with the culture of PHC practice about health promotion and disease prevention.

The continuity of community learning is crucial as it helps students to maintain a spirit of community practice, while striving to become competent nurses. Ongoing experience of working in PHC settings and providing healthcare services to under-served communities not only reinforces internalisation of health promotion and illness prevention throughout the educational programme, but also makes healthcare services more accessible to the community.

The current study showed that 97.8% (n=89) of students had participated in family assessment, while 100% (n=91) had conducted epidemiological studies. Additionally, the findings indicated that all students (n=91) had carried out community assessment to identify community health needs, and 95.6% (n=81) had validated needs from the community to identify health need priorities. These results are congruent with the findings of various other studies that students who engaged in CBE learnt to identify community healthcare needs and implement health interventions to address health problems. This enables both students and community members to identify real issues in the community and the available resources. As a result of the experience they gain through community studies, students learn to understand how cultural, socioeconomic and political factors are interrelated and how these factors determine the health status of the population. This enables them, as PHC practitioners, to implement the necessary measures to affect these determinants of health.

This process of identifying community health problems and validating needs is in line with the PHC philosophy where community members participate in the identification of their needs and resources. Findings showed that the principle of community participation was reflected in this CBE programme, where 70.3% (n=64) of respondents had been exposed to learning about community involvement and 51.6% (n=47) had covered it in the classroom learning environment.

Furthermore, 69.9% of respondents indicated that their community-learning activities had involved members of the community and 85.7% had participated in the implementation of community projects. This embraces the PHC principle that community members should be involved in the planning, implementation, monitoring and evaluation of community-based projects aimed at addressing their health needs. The findings are also consistent with recommendations from the WHO, which state that community members should be involved in students' educational experiences, not only to provide support to foster learning, but also to ensure that community needs are satisfied.

The success of CBE depends on community participation in the educational process. The community helps students by identifying health problems in the community, which forms the curriculum content. In return, they benefit from the services provided by students. During the learning experience, students and community members jointly plan and implement community-based learning projects, which enhances closeness between both groups, a sense of belonging for students, ownership of the interventions implemented, and their acceptability for the community. This achieves the main objective, i.e. improving the health of the community being served.

The findings indicated that 94.3% of the participants had been involved in fundraising for community projects, while 80.2% had participated in assisting the community to take responsibility for their health. Students were also involved in mobilising resources for promoting community self-determination – a principle of PHC. The role of PHC practitioners involves helping the community through collaboration, partnerships with other sector teams and advocacy to assume control of their lives. According to Mtshali, CBE prepares nursing students to fulfil this role, which aims to improve the health of the population through health promotion, disease prevention, and self-reliance and -determination of community members with regard to their health. According to the WHO and Health and Welfare Canada, health is considered as a resource for community development.

The community-based projects of 89% of respondents focused on PHC components of health promotion. Also, 90.1% of community-based projects focused on prevention of illness, injuries and social problems, and 45.1% of respondents conducted community-based projects focused on rehabilitative care of patients with deformities, elderly patients with chronic illnesses and mentally ill clients.

This study revealed that 52.7% of respondents conducted community-based projects on the treatment of common illnesses and injuries at home, such as treatment of lice, diarrhoea and vomiting, flu and minor burn injuries, and 76.9% carried out projects on promoting community self-reliance and -determination, such as identifying, accessing and using available resources in the community to address health-related issues.

The findings are congruent with the results of studies conducted elsewhere, which showed that nursing students in CBE implemented various health-promotion and disease-prevention programmes to vulnerable groups, targeting diabetes, heart diseases, safe sexual behaviours and prevention of infectious diseases, such as sexually transmitted infections, tuberculosis, and HIV and AIDS. The health-promotion and disease-prevention programmes incorporated immunisation, oral health, infant feeding, hygiene products, transmission of germs, preparation for cold weather, healthy eating, women's health issues and assessment of blood pressure for adults. These studies revealed that CBE has a positive impact on the lives of target groups, while enabling the learners to become socially
Research

The findings show that the students involved community members in their community-based service-learning experience. Students engaged in CBE projects that focused on health promotion, prevention of illnesses, injuries and social problems, treatment of minor illnesses, rehabilitative care and promotion of community self-reliance and -determination. These projects and other learning experiences are linked to PHC principles, thus providing healthcare services to vulnerable groups and promoting equity in healthcare access. This familiarises students with principles of PHC, as these principles were instilled during training and therefore promoted a PHC philosophy. This study revealed that a CBE programme promotes PHC philosophy.

Conclusion

Community-based nursing education as an educational approach provides students with an opportunity to learn and provide services to communities.

References