Case Study Analysis as an Effective Teaching Strategy: Perceptions of Undergraduate Nursing Students From a Middle Eastern Country

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Abstract

**Background:** Case study analysis is an active, problem-based, student-centered, teacher-facilitated teaching strategy preferred in undergraduate programs as they help the students in developing critical thinking skills.

**Objective:** It determined the effectiveness of case study analysis as an effective teacher-facilitated strategy in an undergraduate nursing program.

**Methodology:** A descriptive qualitative research design using focus group discussion method guided the study. The sample included undergraduate nursing students enrolled in the Maternal Health Nursing Course during the Academic Years 2017 and 2018. The researcher used a purposive sampling technique and a total of 22 students participated in the study, through five (5) focus groups, with each focus group comprising between four to six nursing students.

**Results:** In total, nine subthemes emerged from the three themes. The themes were "Knowledge development", "Critical thinking and Problem solving", and "Communication and Collaboration". Regarding "Knowledge development", the students perceived case study analysis method as contributing toward deeper understanding of the course content thereby helping to reduce the gap between theory and practice especially during clinical placement. The "Enhanced critical thinking ability" on the other hand implies that case study analysis increased student’s ability to think critically and aroused problem-solving interest in the learners. The "Communication and Collaboration" theme implies that case study analysis allowed students to share their views, opinions, and experiences with others and this enabled them to communicate better with others and to respect other’s ideas which further enhanced their team building capacities.

**Conclusion:** This method is effective for imparting professional knowledge and skills in undergraduate nursing education and it results in deeper level of learning and helps in the application of theoretical knowledge into clinical practice. It also broadened students' perspectives, improved their cooperation capacity and their communication with each other. Finally, it enhanced student’s judgment and critical thinking skills which is key for their success.

**Keywords**
case study, teaching strategy, perceptions, undergraduate students

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Introduction/Background

Recently, educators started to advocate for teaching modalities that not only transfer knowledge (Shirani Bidabadi et al., 2016), but also foster critical and higher-order thinking and student-centered learning (Wang & Farmer, 2008; Onweh & Akpan, 2014). Therefore, educators need to utilize proven teaching strategies to produce positive outcomes for learners (Onweh & Akpan, 2014). Informed by this viewpoint, a teaching strategy is considered effective if it results in positive learner outcomes.
in purposeful learning (Centra, 1993; Sajjad, 2010) and allows the teacher to create situations that promote appropriate learning (Braskamp & Ory, 1994) to achieve the desired outcome (Hodges et al., 2020). Since teaching methods impact student learning significantly, educators need to continuously test the effectiveness of their teaching strategies to ensure desired learning outcomes for their students given today’s dynamic learning environments (Farashahi & Tajeddin, 2018).

In this study, the researchers sought to study the effectiveness of case study analysis as an active, problem-based, student-centered, teacher-facilitated strategy in a baccalaureate-nursing program. This choice of teaching method is facilitated by the fact that nowadays, active teaching-learning is preferred in undergraduate programs because, they not only make students more powerful actors in professional life (Bean, 2011; Yang et al., 2013), but also help learners to develop critical thinking skills (Clarke, 2010). In fact, students who undergo such teaching approaches usually become more resourceful in integrating theory with practice, especially as they solve their case scenarios (Chen et al., 2019; Farashahi & Tajeddin, 2018; Savery, 2019).

**Review of Literature**

As a pedagogical strategy, case studies allow the learner to integrate theory with real-life situations as they devise solutions to the carefully designed scenarios (Farashahi & Tajeddin, 2018; Hermens & Clarke, 2009). Another important known observation is that case-study-based teaching exposes students to different cases, decision contexts and the environment to experience teamwork and interpersonal relations as “they learn by doing” thus benefiting from possibilities that traditional lectures hardly create (Farashahi & Tajeddin, 2018; Garrison & Kanuka, 2004).

Another merit associated with case study method of teaching is the fact that students can apply and test their perspectives and knowledge in line with the tenets of Kolb et al.’s (2014) “experiential learning model”. This model advocates for the use of practical experience as the source of one’s learning and development. Proponents of case study-based teaching note that unlike passive lectures where student input is limited, case studies allow them to draw from their own experience leading to the development of higher-order thinking and retention of knowledge.

Case scenario-based teaching also encourages learners to engage in reflective practice as they cooperate with others to solve the cases and share views during case scenario analysis and presentation (MsDade, 1995).

This method results in “idea marriage” as learners articulate their views about the case scenario. This “idea marriage” phenomenon occurs through knowledge transfer from one situation to another as learners analyze scenarios, compare notes with each other, and develop multiple perspectives of the case scenario. In fact, recent evidence shows that authentic case-scenarios help learners to acquire problem solving and collaborative capabilities, including the ability to express their own views firmly and respectfully, which is vital for future success in both professional and personal lives (Eronen et al., 2019; Yajima & Takahashi, 2017). In recognition of this higher education trend toward student-focused learning, educators are now increasingly expected to incorporate different strategies in their teaching.

This study demonstrated that when well implemented, educators can use active learning strategies like case study analysis to aid critical thinking, problem-solving, and collaborative capabilities in undergraduate students. This study is significant because the findings will help educators in the country and in the region to incorporate active learning strategies such as case study analysis to aid critical thinking, problem-solving, and collaborative capabilities in undergraduate students. Besides, most studies on the case study method in nursing literature mostly employ quantitative methods. The shortage of published research on the case study method in the Arabian Gulf region and the scanty use of qualitative methods further justify why we adopted the focus group method for inquiry.

**Methods**

A descriptive qualitative research design using focus group discussion method guided the study. The authors chose this method because it is not only inexpensive, flexible, stimulating but it is also known to help with information recall and results in rich data (Matua et al., 2014; Streubert & Carpenter, 2011). Furthermore, as evidenced in the literature, the focus group discussion method is often used when there is a need to gain an in-depth understanding of poorly understood phenomena as the case in our study. The choice of this method is further supported by the scarcity of published research related to the use of case study analysis as a teaching strategy in the Middle Eastern region, thereby further justifying the need for an exploratory research approach for our study.

As a recommended strategy, the researchers generated data from information-rich purposely selected group of baccalaureate nursing students who had experienced both traditional lectures and case-based teaching approaches. The focus group interviews allowed the study participants to express their experiences and perspectives in their own words. In addition, the investigators integrated participants’ self-reported experiences with their own observations and this enhanced the study findings (Morgan & Bottorff, 2010; Nyumba et al., 2018; Parker & Titter, 2006).

**Eligibility Criteria**

In order to be eligible to participate in the study, the participants had to:

- Have completed at least one case scenario-based teaching activity in their baccalaureate nursing program.
- Be currently enrolled in a baccalaureate nursing program in the Arabian Gulf region.
- Be willing to participate in the focus group interviews.
(a) be a baccalaureate nursing student in College of Nursing, Sultan Qaboos University
(b) register for Maternity Nursing Course in 2017 and 2018.
(c) attend all the Case Study Analysis sessions in the courses before the study.
(d) show a willingness to participate in the study voluntarily and share their views freely.

Population
The population included the undergraduate nursing students enrolled in the Maternal Health Nursing Course during the Academic Years 2017 and 2018.

Sample
The researcher used a purposive sampling technique to choose participants who were capable of actively participating and discussing their views in the focus group interviews. This technique enabled the researchers to select participants who could provide rich information and insights about case study analysis method as an effective teaching strategy. The final study sample included baccalaureate nursing students who agreed to participate in the study by signing a written informed consent. In total, twenty-two (22) students participated in the study, through five focus groups, with each focus group comprising between four and six students. The number of participants was determined by the stage at which data saturation was reached. The point of data saturation is when no new information emerges from additional participants interviewed (Saunders et al., 2018). Focus group interviews were stopped once data saturation was achieved. Qualitative research design with focus group discussion allowed the researchers to generate data from information-rich purposively selected group of baccalaureate nursing students who had experienced both traditional lectures and case-based teaching approaches. The focus group interviews allowed the study participants to express their perspectives in their own words. In addition, the investigators enhanced the study findings by integrating participants’ self-reported experiences with the researchers’ own observations and notes during the study.

Setting
The study took place at College of Nursing; Sultan Qaboos University, Oman’s premier public university, in Muscat. This is the only setting chosen for the study. The participants are the students who were enrolled in Maternal Health Nursing course during 2017 and 2018. The interviews occurred in the teaching rooms after official class hours. Students who did not participate in the study learnt the course content using the traditional lecture based method.

Ethical Considerations
Permission to conduct the study was granted by the College Research and Ethics Committee (XXXX). Prior to the interviews, each participant was informed about the purpose, benefits as well as the risks associated with participating in the study and clarifications were made by the principal researcher. After completing this ethical requirement, each student who accepted to participate in the study proceeded to sign an informed consent form signifying that their participation in the focus group interview was entirely voluntary and based on free will.

The anonymity of study participants and confidentiality of their data was upheld throughout the focus group interviews and during data analysis. To enhance confidentiality and anonymity of the data, each participant was assigned a unique code number which was used throughout data analysis and reporting phases. To further assure the confidentiality of the research data and anonymity of the participants, all research-related data were kept safe, under lock and key and through digital password protection, with unhindered access only available to the research team.

Research Intervention
In Fall 2017 and Spring 2018 semesters, as a method of teaching Maternal Health Nursing course, all students participated in two group-based case study analysis exercises which were implemented in the 7th and 13th weeks. This was done after the students were introduced to the case study method using a sample case study prior to the study. The instructor explained to the students how to solve the sample problem, including how to accomplish the role-specific competencies in the courses through case study analysis. In both weeks, each group consisting of six to seven students was assigned to different case scenarios to analyze and work on, after which they presented their collective solution to the case scenarios to the larger class of 40 students. The case scenarios used in both weeks were peer-reviewed by the researchers prior to the study.

Pilot Study
A group of three students participated as a pilot group for the study. However, the students who participated in the pilot study were not included in the final study as is general the principle with qualitative inquiry because of possible prior exposure “contamination”. The purpose of piloting was to gather data to provide guidance for a substantive study focusing on testing the data collection procedure, the interview process including the sequence and number of questions and probes and recording equipment efficacy. After the pilot phase, the lessons learned from the pilot were incorporated to ensure smooth operations during the actual focus group interview (Malmqvist et al., 2019).
Data Collection

The focus group interviews took place after the target population was exposed to case study analysis method in Maternal Health Nursing course during the Fall 2017 and Spring 2018 semesters. Before data collection began, the research team pilot tested the focus group interview guide to ensure that all the guide questions were clear and well understood by study participants.

In total, five (5) focus groups participated in the study, with each group comprising between four and six students. The focus group interviews lasted between 60 and 90 min. In addition to the interview guide questions, participants’ responses to unanswered questions were elicited using prompts to facilitate information flow whenever required. As a best practice, all the interviews were audio-recorded in addition to extensive field notes taken by one of the researchers. The focus group interviews continued until data saturation occurred in all the five (5) focus groups.

Credibility. In this study, participant’s descriptions were digitally audio recorded to ensure that no information was lost. In order to ensure that the results are accurate, verbatim transcriptions of the audio recordings were done supported by interview notes. Furthermore, interpretations of the researcher were verified and supported with existing literature with oversight from the research team.

Transferability. The researcher provided a detailed description about the study settings, participants, sampling technique, and the process of data collection and analyses. The researcher used verbatim quotes from various participants to aid the transferability of the results.

Dependability. The researcher ensured that the research process is clearly documented, traceable, and logical to achieve dependability of the research findings. Furthermore, the researcher transparently described the research steps, procedures and process from the start of the research project to the reporting of the findings.

Confirmability. In this study, confirmability of the study findings was achieved through the researcher’s efforts to make the findings credible, dependable, and transferable.

Data Analysis

Data were analyzed manually after the lead researcher integrated the verbatim transcriptions with the extensive field notes to form the final data set. Data were analyzed thematically under three thematic areas of a) knowledge development; b) critical thinking and problem solving; and c) communication and collaboration, which are linked to the study objectives. The researchers used the Six (6) steps approach to conduct a trustworthy thematic analysis: (1) familiarization with the research data, (2) generating initial codes, (3) searching for themes, (4) reviewing the themes, (5) defining and naming themes, (6) writing the report (Nowell et al., 2017).

The analysis process started with each team member individually reading and re-reading the transcripts several times and then identifying meaning units linked to the three thematic areas. The co-authors then discussed in-depth the various meaning units linked to the thematic statements until consensus was reached and final themes emerged based on the study objectives.

Results

A total of 22 undergraduate third-year baccalaureate nursing students who were enrolled in the Maternal Health Nursing Course during the Academic Years 2017 and 2018 participated in the study, through five focus groups, with each group comprising four to six students. Of these, 59% were females and 41% were males. In total, nine subthemes emerged from the three themes. Under knowledge development, emerged the subthemes, “deepened understanding of content; “reduced gap between theory and practice” and “improved test-taking ability”. While under Critical thinking and problem solving, emerged the subthemes, “enhanced critical thinking ability” and “heightened curiosity”. The third thematic area of communication and collaboration yielded, “improved communication ability”; “enhanced team-building capacity”; “effective collaboration” and “improved
presentation skills”, details of which are summarized in Table 1.

**Theme 1: Knowledge Development**

In terms of knowledge development, students expressed delight at the inclusion of case study analysis as a method during their regular theory class. The first subtheme related to knowledge development that supports the adoption of the case study approach is its perceived benefit of ‘deepened understanding of content’ by the students as vividly described by this participant:

“I was able to perform well in the in-course exams as this teaching method enhanced my understanding of the content rather than memorizing” (FGD#3).

The second subtheme related to knowledge development was informed by participants’ observation that teaching them using case study analysis method ‘reduced the gap between theory and practice’. This participant’s claim stems from the realization that, a case study scenario his group analyzed in the previous week helped him and his colleagues to competently deal with a similar situation during clinical placement the following week, as articulated below:

“You see when I was caring for mothers in antenatal unit, I could understand the condition better and could plan her care well because me and my group already analyzed a similar situation in class last week which the teacher gave us, this made our work easier in the ward”. (FGD#7).

Another student added that:

“It was useful as what is taught in the theory class could be applied to the clinical cases.”

(FGD#13).

This ‘theory-practice’ connection was particularly useful in helping students to better understand how to manage patients with different health conditions. Interestingly, the students reported that they were more likely to link a correct nursing care plan to patients whose conditions were close to the case study scenarios they had already studied in class as herein affirmed:

“...when in the hospital I felt I could perceive the treatment modality and plan for [a particular] nursing care well when I [had] discussed with my team members and referred the textbook resource while performing case study discussion”. (FGD#17).

In a similar way, another student added:

“...I could relate with the condition I have seen in the clinical area. So this has given me a chance to recall the condition and relate the theory to practice”. (FGD#2).

The other subtheme closely related to case study scenarios as helping to deepen participant’s understanding of the course content, is the notion that this teaching strategy also resulted in ‘improved test taking-ability’ as this participant’s verbatim statement confirms:

“I could answer the questions related to the cases discussed [much] better during in-course exams. Also [the case scenarios] helped me a great deal to critically think and answer my exam papers” (FGD#11).

**Theme 2: Critical Thinking and Problem Solving**

In this subtheme, students found the case study analysis as an excellent method to learn disease conditions in the two courses. This perceived success with the case study approach is associated with the method’s ability to ‘enhance students’ critical thinking ability’ as this student declares:

“This method of teaching increased my ability to think critically as the cases are the situations, where we need to think to solve the situation”. (FGD#5)

This enhanced critical thinking ability attributed to case study scenario analysis was also manifested during patient care where students felt it allowed them to experience a “flow of patient care” leading to better patient management planning as would typically occur during case scenario analysis. In support of this finding, a participant mentioned that:

“...I could easily connect the flow of patient care provided and hence was able to plan for [his] management as often required during case study discussion” (FGD#12)

Another subtheme linked with this theme is the “heightened curiosity” associated with the case scenario discussions. It was clear from the findings that the cases aroused curiosity in the mind of the students. This heightened interest meant that during class discussion, baccalaureate nursing students became active learners, eager to discover the next set of action as herein affirmed:

“...from the beginning of discussion with the group, I was eager to find the answer to questions presented and wanted to learn the best way for patient management” (FGD#14)
Theme 3: Communication and Collaboration

In terms of its impact on student communication, the sub-theme revealed that case study analysis resulted in “improved communication ability” among the nursing students. This enhanced ability of students to exchange ideas with each other may be attributed to the close interaction required to discuss and solve their assigned case scenarios as described by the participant below:

“as [case study analysis] was done in the way of group discussion, I felt me and my friends communicated more within the group as we discussed our condition. We also learnt from each other, and we became better with time.” (FGD#21).

The next subtheme further augments the notion that case study analysis activities helped to “enhance team-building capacity” of students as this participant affirmatively narrates:

“students have the opportunity to meet face to face to share their views, opinion, and their experience, as this build on the way they can communicate with each other and respect each other’s opinions and enhance team-building”. (FGD#19).

Another subtheme revealed from the findings show that the small groups in which the case analysis occurs allowed the learners to have deeper and more focused conversations with one another, resulting in “an effective collaboration between students” as herein declared:

“We could collaborate effectively as we further went into a deep conversation on the case to solve”. (FGD#16).

Similarly, another student noted that:

“...discussion of case scenarios helped us to prepare better for clinical postings and simulation lab experience” (FGD#5).

A fourth subtheme related to communication found that students also identified that case study analysis resulted in “improved presentation skills”. This is attributed in part to the preparation students have to go through as part of their routine case study discussion activities, which include organizing their presentations and justifying and integrating their ideas. Besides readying themselves for case presentations, the advice, motivation, and encouragement such students receive from their faculty members and colleagues makes them better presenters as confirmed below:

“…teachers gave us enough time to prepare, hence I was able to present in front of the class regarding the finding from our group.” (FGD#16).

Discussion

In this study, the researches explored learner’s perspectives on how one of the active teaching strategies, case study analysis method impacted their knowledge development, critical thinking, and problem solving as well as communication and collaboration ability.

Knowledge Development

In terms of knowledge development, the nursing students perceived case study analysis as contributing toward: (a) deeper understanding of content, (b) reducing gap between theory and practice, and (c) improving test-taking ability. Deeper learning” implies better grasping and retention of course content. It may also imply a deeper understanding of course content combined with learner’s ability to apply that understanding to new problems including grasping core competencies expected in future practice situations (Rickle, 2019; Rittle-Johnson et al., 2020). Deeper learning therefore occurs due to the disequilibrium created by the case scenario, which is usually different from what the learner already knows (Hattie, 2017). Hence, by “forcing” students to compare and discuss various options in the quest to solve the “imbalance” embedded in case scenarios, students dig deeper in their current understanding of a given content including its application to the broader context (Manalo, 2019). This movement to a deeper level of understanding arises from carefully crafted case scenarios that instructors use to stimulate learning in the desired area (Norton, 2017; Rittle-Johnson et al., 2020). The present study demonstrated that indeed such carefully crafted case study scenarios did encourage students to engage more deeply with course content. This finding supports the call by educators to adopt case study as an effective strategy.

Another finding that case study analysis method helps in “reducing the gap between theory and practice” implies that the method helps students to maintain a proper balance between theory and practice, where they can see how theoretical knowledge has direct practical application in the clinical area. Ajani and Moez (2011) argue that to enable students to link theory and practice effectively, nurse educators should introduce them to different aspects of knowledge and practice as with case study analysis. This dual exposure ensures that students are proficient in theory and clinical skills. This finding further amplifies the call for educators to adequately prepare students to match the demands and realities of modern clinical environments (Hickey, 2010). This expectation can be met by ensuring that student’s knowledge and
skills that are congruent with hospital requirements (Factor et al., 2017) through adoption of case study analysis method which allows integration of clinical knowledge in classroom discussion on regular basis.

The third finding, related to “improved test taking ability”, implies that case study analysis helped them to perform better in their examination, noting that their experience of going through case scenario analysis helped them to answer similar cases discussed in class much better during examinations. Martinez-Rodrigo et al. (2017) report similar findings in a study conducted among Spanish electrical engineering students who were introduced to problem-based cooperative learning strategies, which is similar to case study analysis method. Analysis of student’s results showed that their grades and pass rates increased considerably compared to previous years where traditional lecture-based method was used. Similar results were reported by Bonney (2015) in an even earlier study conducted among biology students in Kings Borough community college students, in New York, United States. When student’s performance in examination questions covered by case studies was compared with classroom discussions, and text-book reading, case study analysis approach was significantly more effective compared to traditional methods in aiding students’ performance in their examinations. This finding therefore further demonstrates that case study analysis method indeed improves student’s test taking ability.

### Critical Thinking and Problem Solving

In terms of critical thinking and problem-solving ability, the use of case study analysis resulted in two subthemes: (a) enhanced critical thinking ability and (b) heightened learner curiosity. The “enhanced critical thinking ability” implies that case analysis increased student’s ability to think critically as they navigated through the case scenarios. This observation agrees with the findings of an earlier questionnaire-based study conducted among 145 undergraduate business administration students at Chittagong University, Bangladesh, that showed 81% of respondents agree that case study analysis develops critical thinking ability and enables students to do better problem analysis (Muhiuddin & Jahan, 2006). This observation agrees with the findings of an earlier study conducted among 145 undergraduate business administration students at Chittagong University, Bangladesh. The study showed that 81% of respondents agreed that case study analysis facilitated the development of critical thinking ability in the learners and enabled the students to perform better with problem analysis (Muhiuddin & Jahan, 2006).

More recently, Suwono et al. (2017) found similar results in a quasi-experimental research conducted at a Malaysian university. The research findings showed that there was a significant difference in biological literacy and critical thinking skills between the students taught using socio-biological case-based learning and those taught using traditional lecture-based learning. The researchers concluded that case-based learning enhanced the biological literacy and critical thinking skills of the students. The current study adds to the existing pedagogical knowledge base that case study methodology can indeed help to deepen learner’s critical thinking and problem solving ability.

The second subtheme related to “heightened learner curiosity” seems to suggest that the case studies aroused problem-solving interest in learners. This observation agrees with two earlier studies by Tiwari et al. (2006) and Flanagan and McCausland (2007) who both reported that most students enjoyed case-based teaching. The authors add that the case study method also improved student’s clinical reasoning, diagnostic interpretation of patient information as well as their ability to think logically when presented a challenge in the classroom and in the clinical area. Jackson and Ward (2012) similarly reported that first year engineering undergraduates experienced enhanced student motivation. The findings also revealed that the students venturing self-efficacy increased much like their awareness of the importance of key aspects of the course for their future careers. The authors conclude that the case-based method appears to motivate students to autonomously gather, analyze and present data to solve a given case. The researchers observed enhanced personal and collaborative efforts among the learners, including improved communication ability. Further still, learners were more willing to challenge conventional wisdom, and showed higher “softer” skills after exposure to case analysis based teaching method. These findings like that of the current study indicate that teaching using case based analysis approach indeed motivates students to engage more in their learning, there by resulting in deeper learning.

### Communication and Collaboration

Case study analysis is also perceived to result in: (a) improved communication ability; (b) enhanced team-building capacity, (c) effective collaboration ability, and (d) enhanced presentation skills. The “improved communication ability” manifested in learners being better able to exchange ideas with peers, communicating their views more clearly and collaborating more effectively with their colleagues to address any challenges that arise. Fini et al. (2018) report comparable results in a study involving engineering students who were subjected to case scenario brainstorming activities about sustainability concepts and their implications in transportation engineering in selected courses. The results show that this intervention significantly improved student’s communication skills besides their higher-order cognitive, self-efficacy and teamwork skills. The researchers concluded that involving students in brainstorming activities related to problem identification including their practical implications, is an effective teaching strategy.
Similarly, a Korean study by Park and Choi (2018) that sought to analyze the effects of case-based communication training involving 112 sophomore nursing students concluded that case-based training program improved the students’ critical thinking ability and communication competence. This finding seems to support further the use of case-based teaching as an effective teaching-learning strategy.

The “enhanced team-building capacity” arose from the opportunity students had in sharing their views, opinions, and experiences where they learned to communicate with each other and respect each other’s ideas which further enhance team building. Fini et al. (2018) similarly noted that increased teamwork levels were seen among their study respondents when the researchers subjected engineering students to case scenario based-brainstorming activities as occurs with case study analysis teaching. Likewise, Lairamore et al. (2013) report similar results in their study that showed that case study analysis method increased teamwork ability and readiness among students from five health disciplines in a US-based study.

The finding that case study analysis teaching method resulted in “effective collaboration ability” among students manifested as students entered into deep conversation as they solved the case scenarios. Rezaee and Mosalanejad (2015) assert that such innovative learning strategies result in noticeable educational outcomes, such as greater satisfaction with and enjoyment of the learning process (Wellmon et al., 2012). Further, positive attitudes toward learning and collaboration have been noted leading to deeper learning as students prepare for case discussions (Rezaee & Mosalanejad, 2015). This results show that case study analysis can be utilized by educators to foster professional collaboration among their learners, which is one of the key expectations of new graduates today.

The finding associated with “improved presentation skills” is consistent with the results of a descriptive study in Saudi Arabia that compared case study and traditional lectures in the teaching of physiology course to undergraduate nursing students. The researchers found that case-based teaching improved student’s overall knowledge and performance in the course including the acquisition of skills compared to traditional lectures (Majeed, 2014). Noblitt et al. (2010) report similar findings in their study that compares traditional presentation approach with the case study method for developing and improving student’s oral communication skills. This finding extends our understanding that case study method improves learners’ presentation skills.

**Limitation**

The study was limited to level third year nursing students belonging to only one college and the sample size, which might limit the transferability of the study findings to other settings.

**Implications for Practice**

These study findings add to the existing body of knowledge that places case study-based teaching as a tested method that promotes perception learning where students’ senses are engaged as a result of the real-life and authentic clinical scenarios (Malesela, 2009), resulting in deeper learning and achievement of long-lasting knowledge (Fiscus, 2018). The students reported that case scenario discussions broadened their perspectives, improved their cooperation capacity and communication with each other. This teaching method, in turn, offers students an opportunity to enhance their judgment and critical thinking skills by applying theory into practice.

These skills are critically important because nurses need to have the necessary knowledge and skills to plan high quality care for their patients to achieve a speedy recovery. In order to attain this educational goal, nurse educators have to prepare students through different student-centered strategies. The findings of our study appear to show that when appropriately used, case-based teaching results in acquisition of disciplinary knowledge manifested by deepened understanding of course content, as well as reducing the gap between theory and practice and enhancing learner’s test-taking-ability. The study also showed that case based teaching enhanced learner’s critical thinking ability and curiosity to seek and acquire a deeper knowledge. Finally, the study results indicate that case study analysis results in improved communication and enhanced team-building capacity, collaborative ability and improved oral communication and presentation skills. The study findings and related evidence from literature show that case study analysis is well-suited approach for imparting knowledge and skills in baccalaureate nursing education.

**Conclusion**

This study evaluated the usefulness of Case Study Analysis as a teaching strategy. We found that this method of teaching helps encourages deeper learning among students. For instructors, it provides the opportunity to tailor learning experiences for students to undertake in depth study in order to stimulate deeper understanding of the desired content. The researchers conclude that if the cases are carefully selected according to the level of the students, and are written realistically and creatively and the group discussions keep students well engaged, case study analysis method is more effective than other traditional lecture methods in facilitating deeper and transferable learning/skills acquisition in undergraduate courses.
Conflict of Interest
The authors declare no conflict of interest.

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