Effect of Evidence-Based Method Clinical Education on Patients Care Quality and Their Satisfaction

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Nowadays, evidence-based education with a serious purpose, more explicit and rational than the best current evidence to decision-making in nursing education, has been addressed. This study aimed to assess the effect of clinical evidence based on the fact that the quality of patient care has been performed and the usual care based on traditional evidence-based care training has been under almost identical. Student feedback questionnaire data, patient satisfaction and quality of care were collected and then were analyzed with descriptive and inferential statistics. This study suggests that using evidence-based education in nursing care is effective not only as traditional education, but also as knowledge and skills, and the quality of patient care increases. On the other hand, it will reduce costs and length of stay in the hospital.

Keywords: Evidence-Based Nursing; Student Nurse; Patient Care; Patient Satisfaction

Introduction

Nurses make up the largest provider of health services and essential role in maintaining and improving health care and health care delivery systems at different levels of play (Adib-Hagbaghery et al., 2004). Continuing advances in scientific knowledge and technical expertise combined with their professional and scientific evidence and the practice in multidisciplinary groups, clients identify problems, and design, implement and evaluate programs of care for these problems to be solved (Salsali, 2004). Nurses whose actions were based on scientific evidence, have been able to make better decisions, higher quality care to shorten patient’s hospital stay and reduce costs, and bring better cost effectiveness for the patient (McKenna, 2004).

Sackett and colleagues’ (2000) application of evidence-based care with research knowledge, expertise, clinical experience and patient values in providing care to patients has been known (Sackett & Rosenberg, 2000). Gibbs (2007) Priorities for evidence-based nursing, placing the interests of patients through the use of best evidence for clinical decisions in patient care, have been defined (Gibbs, 2007). Care based on evidence-based nursing care is progressive, but due to lack of skills in all cases, this approach is not used. The use of evidence-based education on nursing students of high performance and good results (Oh et al., 2010) in one study, increases in the prevention of venous thrombosis patients (Duff et al., 2010). In another study of women with early breast cancer, chemotherapy, reduction and increasing patient self-doubt and uncertainty have been reported. In order to prepare for employment, nursing students need skills to evaluate and use research findings to gain (Balakas & Sparks, 2010). The evidence-based methods of pain relief were accomplished through the work by Carlson (2010). The results of this study show that users use evidence-based education to increase students’ academic scores (Brown et al., 2010). According to the order, Li et al. use evidence to solve problems that are faced by workers in the real environment (Li et al., 2009). Forrest also learned the components of evidence-based, in terms of needs, problems, clinical questions and search strategies in response to the health problems of patients (Smith et al., 2000). These methods are effective ways to meet the needs and problems of care and improve clinical decisions (Melnik & Overholt, 2005). Ghanizadeh and colleagues also showed that the ability to update data in an inclusive sense of self is to address clinical issues (Green, 2000). Green indicates the findings of clinical scenarios and discussions led by students, the effectiveness of training (Adib-Hajbaghery et al., 2010). Abedini et al. stated in their study that the use of evidence in clinical practice linking theoretical and empirical concepts and according to the theoretical literature as well as the progress of scientific knowledge is not possible to simply practice and learn fitness professional involved in the real environment (Abedini et al., 2012). Considine & McGillivray study employed evidence-based care for stroke patients to improve care and better health outcomes (Considine & McGillivray, 2010). Carlson study showed that the use of evidence-based care for reducing anxiety in cancer patients beginning chemotherapy is highly effective (Carlson, 2010). This study revealed that Drew and his instructions are used to prepare the best available evidence, and that nursing care can lead patients correctly (Drew et al., 2004). McKinley et al. also reduce the use of research evidence that has crashed in the hospital (McKinley et al., 2007).
Methods

In this study, the population in 2013 was an undergraduate nursing students, 40 of Seven semesters nursing undergraduate student for the internship Imam Hossein hospital in Tehran admitted to the ward. Before entering the hospital with purpose sampling, based on the average overall grade point average, scores past academic semester internships and gender, were randomly divided into 4 groups of 10. 2 groups based on the traditional and usual care group 2 according to the same evidence-based care intervention were instructed by a faculty mentor and each group spent a week training. Data were collected by two questionnaires and a check list. Check list “Assessing the quality of patient care”, which was completed by a clinical instructor in the department, comments questionnaire of students’ Factors affecting clinical care “was completed by the patients and “Patient satisfaction with clinical care, education and communication” by the patient or by the illiterate and he was perfect.

Check List three areas of clinical care, practical skills using the theory of care and patient education are included .this check list has not been informed by the instructor that the main objectives of the study were completed during the care sector. Grading check lists of 10 - 100 (10 - 40 “inappropriate care”, 41 - 70 “Medium Care” and 71 - 100 “optimal care”), respectively. Questionnaire to assess the students’ opinion about the factors affecting clinical care, includes 20 questions related to decision making and clinical practice based on the needs of patients, and considering all the patients and the general attitude of the patient’s anxiety during the performance, predict a patient’s condition, creativity in performance, benefits and drawbacks of each method on the basis of performance and are evaluating the options, pros and cons. Percentage of total responses for each question on the pros and cons each group were presented in the results. Cronbach reliability coefficient of 86% was achieved in the preliminary study.

Comments and patient satisfaction questionnaire included 28 questions about the service aspects of clinical care, patient satisfaction, communication, education, and options to measure the question low, medium, is high. Each of the options low score 1, score 2 and 3 are assigned a high score. Grading Scale based on 28 scores “low satisfaction”, 29 - 56 “happy medium” and 57 - 84 “high satisfaction” is. Cronbach’s alpha reliability coefficient was 89%.

The research was conducted to that students learn about various aspects of care at the beginning of each section was determined by questionnaire and then into 2 groups based on the evidence, the 5 sessions of 2 hours, using evidence-based care intervention. The evidence-based group, 70% of patients in the clinical care, patient education, and 80% after 75% in relation to the patient’s satisfaction was high. Traditional high level of satisfaction in patients in the clinical care of 65%, 60%, and in the education of the patient after patient contact was 75%. In the case of education, the significant difference observed between the two groups based on traditional evidence was (p = 0.01).

Results

Evidence-Based Nursing is considered as one of the modern methods of instruction. This study aims to determine the impact of evidence-based nursing skills, nursing process took place that indicates the use of evidence-based nursing due to new scientific evidence, Outdated information and method and time to improve and update the necessary measures. Therefore, it is important to learn the technique and its use in the clinical setting. Because nursing students and nurses each day reliable information on diagnosis, treatment, prognosis, prevention, investigation and identification, planning, implementation and evaluation needs. The traditional information sources are inadequate and often outdated. This approach leads to improved critical thinking, independent clinical decisions and ultimately improve the quality of nursing care. Thus optimizing the use of research in nursing with emphasis on evidence-based nursing leads to the acquisition of professional identity and the quality of nursing care. Another objective of this study was to demonstrate the clinical training of evidence based on the quality of patient care and satisfaction. The results showed that two groups of students based on traditional evidence of practical skills in providing care to patients who are not significantly different from each other. But the dimensions of patient education and the use of theory to practice evidence-based clinical care differences are statistically significant. Among other results of this study to improve student learning by integrating evidence-based care programs are taught. Students in this study believe that evidence-based approach with greater creativity, higher awareness and better diagnosis of care is associated with patient care needs.

Among the major obstacles in using evidence-based approach in this study can be cited: Evidence is difficult to obtain due to new scientific evidence, Outdated information and method and time to improve and update the necessary measures. Therefore, it is important to learn the technique and its use in the clinical setting. Because nursing students and nurses each day reliable information on diagnosis, treatment, prognosis, prevention, investigation and identification, planning, implementation and evaluation needs. The traditional information sources are inadequate and often outdated. This approach leads to improved critical thinking, independent clinical decisions and ultimately improve the quality of nursing care. Thus optimizing the use of research in nursing with emphasis on evidence-based nursing leads to the acquisition of professional identity and the quality of nursing care. Another objective of this study was to demonstrate the clinical training of evidence based on the quality of patient care and satisfaction. The results showed that two groups of students based on traditional evidence of practical skills in providing care to patients who are not significantly different from each other. But the dimensions of patient education and the use of theory to practice evidence-based clinical care differences are statistically significant. Among other results of this study to improve student learning by integrating evidence-based care programs are taught. Students in this study believe that evidence-based approach with greater creativity, higher awareness and better diagnosis of care is associated with patient care needs.

<table>
<thead>
<tr>
<th>Group care field</th>
<th>Based on evidence</th>
<th>Traditional</th>
<th>T</th>
<th>Significance level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical skills</td>
<td>73 ± 5.83</td>
<td>75 ± 5.83</td>
<td>-1.2</td>
<td>0.23</td>
</tr>
<tr>
<td>Using the theoretical</td>
<td>82 ± 5.29</td>
<td>70 ± 4.25</td>
<td>7.6</td>
<td>0.01</td>
</tr>
<tr>
<td>Patient education</td>
<td>85 ± 6.88</td>
<td>76 ± 4.26</td>
<td>5.8</td>
<td>0.04</td>
</tr>
</tbody>
</table>
Table 2.
Evidence-based and traditional students opinions about factors affecting patient care (numbers outside parentheses are the number and percentage in parentheses.)

<table>
<thead>
<tr>
<th>Group Benefits Index</th>
<th>Based on evidence</th>
<th>Traditional</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Against</td>
<td>Compliant</td>
</tr>
<tr>
<td>Decisions based on patient needs and clinical practice</td>
<td>(30) 6</td>
<td>(70) 14</td>
</tr>
<tr>
<td>Considering all the problems in patient care</td>
<td>(25) 5</td>
<td>(75) 15</td>
</tr>
<tr>
<td>Reduce anxiety during treatment</td>
<td>(40) 8</td>
<td>(60) 12</td>
</tr>
<tr>
<td>Status in predicting patient care</td>
<td>(40) 8</td>
<td>(60) 12</td>
</tr>
<tr>
<td>Full discretion of the patient</td>
<td>(20) 4</td>
<td>(80) 16</td>
</tr>
<tr>
<td>Creativity in Care</td>
<td>(30) 6</td>
<td>(70) 14</td>
</tr>
</tbody>
</table>

patients, lack of confidence to make changes, lack of knowledge of nurses, Restrictions on access to research articles and an attitude that was not enough for the care and need to learn new skills and find a lot of resources and detailed evidence. Also, the poll results indicate four major obstacles in the path of nursing care based on the evidence include: The lack of practical nursing research, nurses lack the skills to access and evaluate research evidence, lack of institutional support and time.

Conclusion
Integration of research evidence in nursing care not only is effective as the traditional approach, it also promotes professional nursing knowledge, skills and nursing care of high quality and effectiveness. They also reduce the duration and cost of hospitalization. Evidence-based nursing education can strengthen the critical thinking and Developing Creativity over traditional nursing process to promoting skills in nursing students. Therefore, this method can be used in clinical education.

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REFERENCES