Nurse Attitude-Related Barriers to Effective Control of Cancer Pain among Iranian Nurses

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Abstract

Background: Many cancer patients still experience pain worldwide. There are many barriers for effective control of cancer pain and many of these are related to health care providers. There is a need for further investigation of these barriers. The aim of this study was to investigate nurse-related barriers to control of cancer pain among Iranian nurses. Materials and Methods: In this descriptive study 49 nurses from two hospitals affiliated to Tabriz and Ardebil Universities of Medical Sciences participated using a census sampling method. A demographic and profession related checklist and Barriers Questionnaire II (BQ-II) were used for data collection. Results: The results showed negative attitudes of participants regarding control of cancer pain. Participants believed that cancer pain medications do not manage cancer pain at acceptable levels; patients may become addicted by using these drugs; cancer pain medications have many uncontrollable effects; and controlling cancer pain may distract the physicians from treating disease. Conclusions: Iranian nurses have negative attitudes toward pain control in cancer patients especially about effectiveness of pain medication and their side effects. Educational intervention to reduce these misconceptions is needed.

Keywords: Cancer - pain - cancer pain - nurses - barriers - attitude - Iran

Introduction

The number of cancer patients has increased in recent decades (van der Eerden et al., 2014). As the chemotherapy and other cancer treatments become aggressive, the number of advanced patients increases, and the prevalence of patients’ signs and symptoms increase (Burton and Cleeland, 2001). Cancer therapy makes many adverse symptoms for patients such as nausea, emesis, pain, fatigue, distractibility, and poor memory. These symptoms can impair patient quality of life (Dantzer et al., 2012).

Pain is one of a major symptom in cancer patients (Macfarlane et al., 2012). The result of a systematic review by Deandrea et al. (2008) showed that in 50% of cases the pain of cancer patients is undertreated (Deandrea et al., 2008). The results of one systematic review showed that 53% of cancer patients in all disease stages experiencing pain (van den Beuken-van Everdingen et al., 2007).

It should be noted that some studies from Middle East also showed that many of cancer patients experiences untreated cancer pain. For example a study from Turkey showed that 20.4% cancer patients were not receiving pain treatment (Aslan et al., 2011). As another example, another study reported that Jordanian cancer patients were experiencing high levels of pain, which was undertreated (Al Qadire et al., 2013).

It should be noted that cancer pain has many physiological and psychological outcomes for cancer patients (Marcus, 2011). The results of a systematic review showed that pain interact with activities of daily living, work and work efficiency, and reduced quality and quantity of life in cancer patients. One the other hand, this review showed that effective pain therapy resulted in improvements in fatigue, sleep, depression, quality of life, and work in these patients (Andrew et al., 2014).

Unfortunately, increased prevalence of cancer pain has been associated with inadequate pain control (Mishra et al., 2009). It should be noted that many advanced cancer patients depend on healthcare providers for assessment of their symptom, including cancer pain (Laugsand et al., 2010). With the purpose of improve the management of pain, all healthcare professionals, and included nurses, should have sufficient knowledge regarding pain management and ware of pain management (Arslan et al., 2014). In this regard, the results of an Iranian study showed that knowledge deficit is an important pain management barrier among Iranian physicians (Eftekhari et al., 2007).

The results of previous studies showed that there
are many barriers for cancer pain management. These barriers many are classified as health care providers-related barriers, patient-related barriers, and society- and tradition-related barriers as well as government regulations (Fazeny et al., 2000; Chang et al., 2002; Potter et al., 2003; Oldenmenger et al., 2009). So, nurses are one of the main health care providers for assessment and management of cancer pain and the results of some studies showed that a many nursing-related barriers to cancer pain management are exist and there is a need for further studies to address these barriers (Howell et al., 2000; Al Khalaileh and Al Qadire, 2012). In a wide review of related literature there was no related studies investigated the nurses – related barriers for cancer pain in Iranian health care system. So, the aim of this study was to investigate the nurses – related barriers for control of cancer pain among Iranian nurses.

Materials and Methods

This descriptive study conducted in two hospitals affiliated to Tabriz University of Medical Sciences and Ardebil University of Medical Sciences, Iran. These hospitals are main centers for treatments of cancer patients in East Azerbaijan and Ardebil Provinces in northeast of Iran.

The study population was consisted of all nurses who working in study setting during the sampling. Inclusion criteria for these nurses were including; having BS degree in nursing and at least one year experience of caring of cancer patients. All nurses who met these criteria were 64 nurses and so; all of them were invited to participate in the study. Finally the data of 49 nurses were collected.

The study instrument consisted of two main parts. The first part was a checklist that investigated some demographic and profession-related characteristic of participants. The second part was the Barriers Questionnaire II (BQ-II). This questionnaire was developed to assess barriers to effective pain management. It consists of 27 questions about patients’ barriers to pain management. Each question scored from 1 (1 agree at all) to 6 (do not agree at all) (Gunnarsdottir et al., 2002).

For using in present study, the BQ-II was translated into Persian and then back translated. The scale face and content validity were assessed and verified by the expert panel constituted ten faculty members affiliated to Tabriz University of Medical Sciences and some minor changes were applied. The final version of the questionnaire was tested for reliability in a pilot study involving 18 cancer patients. Cronbach-Alpha coefficient value for BQ-II was 0.91.

For data collection, the research proposal was approved by Regional Ethics Committee at Tabriz University of Medical Sciences. Then, the list of all nurses who met the research inclusion criteria was obtained from the nursing offices of selected hospitals. All of the nurses were contacted in different working shifts and invited to participate in the study. The aims and methods of the study were explained for all nurses and informed consent was obtained from all of them. The nurses were asked to fill out the questionnaires in the same shift during their rest time. But, if wanted, the questionnaires gave back from nurses in their next working shifts.

Statistical analysis was conducted by using SPSS statistical software (version 13). Frequency, percentage, mean, and standard deviation were used for describe demographic and profession related characteristics and response of nurses to BQ-II.

Results

Some demographic and profession related characteristics of participants is reported in table 1. As evident in this table most of nurses are female, married, with a BS degree in nursing. Also, most of participants have a previous history of pain.

The responses of nurses to all items of BQ-II are reported in table two. The analysis of items showed that participants have many negative perceptions regarding control of cancer pain. First, in three items (items 1, 8, 21) regarding the effect of medications on controlling cancer pain participants had low negative attitude regarding exact effect of cancer pain medications. Second, in two items regarding possibility of be addicted by using pain medications (items 2,9,16) participants strongly believed that patients get addicted to pain medicine easily. Third, in 12 items (3,4,5,6,7,10,13,14,18,19,20,25) nurses reported moderate attitude toward side effects of cancer pain. Fourth, in two items (11 and 22) participants believed that reporting cancer pain indicate the weakness of patients. Fifth, in four items (12, 23, 24, 27) participants believed that it is better that physician focus on disease instead of pain and reports of pain may distract the physicians from

<table>
<thead>
<tr>
<th>Variable</th>
<th>Groups</th>
<th>Frequency</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>Male</td>
<td>4</td>
<td>10.2</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>44</td>
<td>89.8</td>
</tr>
<tr>
<td>Education</td>
<td>BS in nursing</td>
<td>78</td>
<td>90.7</td>
</tr>
<tr>
<td></td>
<td>MS in nursing</td>
<td>8</td>
<td>9.3</td>
</tr>
<tr>
<td></td>
<td>Married</td>
<td>40</td>
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</tr>
<tr>
<td></td>
<td>Single</td>
<td>9</td>
<td>18.4</td>
</tr>
<tr>
<td></td>
<td>Widow/divorced</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Marital status</td>
<td>Yes</td>
<td>30</td>
<td>61.2</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>19</td>
<td>38.8</td>
</tr>
<tr>
<td>Previous history of pain</td>
<td>Yes</td>
<td>30</td>
<td>61.2</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>19</td>
<td>38.8</td>
</tr>
<tr>
<td>Age in years, mean (SD)</td>
<td>32.14 (9.59)</td>
<td>65</td>
<td>6.24 (2.14)</td>
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</tbody>
</table>
The results of present study showed that participants believed that pain medications cannot really control cancer pain and reporting pain by patients indicates their weakness. These results indicate negative attitudes of participants about controlling cancer pain. Although, the results of some studies showed that nurses believed that the main barrier for controlling cancer pain is patient reluctance to report pain (Clarke et al., 1996). In addition, another study showed that nurses believed that pain medications are not so helpful in controlling cancer pain and in many cases is inevitable (McMillan et al., 2000). So, these results are consistent with our results and approve that many nurse still have fear about pain medications.

Discussion

The aim of this study was to investigate the nurses – related barriers for control of cancer pain among Iranian nurses. To our knowledge this study is the first investigated this issue among Iranian nurses or nurses from other Middle Eastern countries.

The main result of present study is that Iranian nurses had a negative attitudes regarding pain control among cancer patients. This result is consistent with the results of previous studies. For example, the results of one study on Italian hospice nurses showed that these nurses have many misconceptions and negative attitudes towards pain management in advanced cancer patients (Bernardi et al., 2015; Ghasempour et al., 2015; Tahory et al., 2016). Similarly, the results of another systematic review showed that the most prominent physician-related barriers for cancer pain management were insufficient physicians’ knowledge about cancer pain management (Jacobsen et al., 2009). Also, the results of other study showed that fear about pain medications is one of most important barriers to cancer pain control as reported by home-health and hospice nurses and patients (Randall-David et al., 2003).

The results of present study showed that participants believed that pain medications cannot really control cancer pain and reporting pain by patients indicates their weakness. These results indicate negative attitudes of participants about controlling cancer pain. Although, the results of some studies showed that nurses believed that the main barrier for controlling cancer pain is patient reluctance to report pain (Clarke et al., 1996). In addition, another study showed that nurses believed that pain medications are not so helpful in controlling cancer pain and in many cases is inevitable (McMillan et al., 2000). So, these results are consistent with our results and approve that many nurse still have a lot of uncertainties about the positive effects of pain control medications. This finding is consistent with other studies that showed the quality of different aspects of daily living in cancer patients is low (Abbasnejhad et al., 2015; Aghdam et al., 2015; Faghani et al., 2015; Fathollahzadeh et al., 2015; Ghasempour et al., 2015; Tahory et al., 2016).

The results of this study have some clinical implication.
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These results show that Iranian nurses have many misconception and negative beliefs about the efficacy of pain control medications and side effects of these drugs. So, there is a need for continuing education of theses nurses about cancer pain and its management. Especially, male nurses and nurses with less work experience should be a priority. Also, there is a need for change in curriculum of nursing education to include more courses about symptom management in oncology settings.

This study has some limitations. First, this study conducted in two provinces in northwest of Iran. So, generalizing its finding to other parts of Iran is difficult. Second, the sample size of this study was love and 49 nurses were participated. So, other studies in other parts of Iran or other Middle Eastern countries are needed.

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References


