Perception of Nurses about Palliative Care: Experience from South-West Nigeria

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Abstract

Background: Nurses play a major role all over the world in the palliative care team. Aim: The aim of this study was to investigate the knowledge and attitude of nurses toward palliative care in a tertiary level hospital in Nigeria. Subjects and Methods: Setting: This cross-sectional questionnaire-based study was carried out among nurses at a tertiary health care facility in Ado-Ekiti, South-West Nigeria. A cross-sectional questionnaire-based study was carried out. The questionnaire sought information about the sociodemographic profile of respondents, their knowledge of definition and philosophy of palliative care among other things. Descriptive statistics was used to obtain the general characteristics of the study participants, while Chi-square was used to determine the association between categorical variables. A two-sided \( P < 0.05 \) was considered as significant. Results: A total of 100 questionnaires were returned with a female preponderance among the respondents with F: M ratio of 9:1. Regarding the definition of palliative care, 71.8\% (48/66) of the respondents understood palliative care to be about pain medicine, 55\% (33/60) thought it to be geriatric medicine, while 90.2\% (83/92) felt palliative care is about the active care of the dying. Exactly 80.5\% (66/82) respondents agreed that palliative care recognizes dying as a normal process while 84.1\% (74/88) respondents were of the opinion that all dying patients would require palliative care. The use of morphine would improve the quality of life of patients according to 68.9\% (42/61) of respondents. Conclusion: There are gaps in the knowledge of healthcare workers in the area of palliative care and this call for a review of the current nursing curriculum and practice guidelines in Nigeria.

Keywords: End of life, Nurses’ attitude, Pain management, Palliative care

Introduction

Palliative care is an emerging area of medicine that aims to improve the quality of life of patients with chronic diseases such as cancer, end-stage heart failure, and chronic obstructive airways disease.\textsuperscript{[1,2]} The palliative care team is usually made up of nurses, medical doctors, pharmacists, social workers, spiritual leaders, and psychologists.\textsuperscript{[3,4]} Nurses by the nature of their jobs play a major role in the palliative care team as they are usually in constant touch with patients and their relatives. The knowledge and skills of palliative care among nurses will definitely affect the quality of palliative care being offered in a particular center. In Nigeria, palliative care units has only been established in a few tertiary health care facilities recently\textsuperscript{[5]} and knowledge of nursing staff toward palliative care has not previously been investigated. Previous works relating to palliative in Nigeria have been centered on the history and challenges of palliative care in Nigeria, knowledge and attitude of patients to palliative care and truth-telling for cancer diagnosis and prognosis.\textsuperscript{[6-8]} The aim of this work is to explore nurses’ knowledge and attitudes toward palliative care in an emerging tertiary care center in the South-Western part of Nigeria where a palliative care unit has just commenced operations.

Subjects and Methods

Study setting

This study was carried out among the nursing staff of the Ekiti State University Teaching Hospital, a tertiary level care health facility located in Ado-Ekiti, South-West Nigeria during the month of April, 2013. This center has medical specialists in
Internal Medicine, Family Medicine, Surgery, Psychiatry, Pediatrics, Anesthesia and Community Medicine. It also has a large component of nursing staff and an affiliated school of nursing where training at undergraduate and postgraduate levels is being done.

Methods

This study was a questionnaire-based cross-sectional study among the different categories of nurses in the hospital. The nursing staff is classified according to their seniority in ascending order as: Nursing Officer (NO), Senior NO, Principal NO, Assistant Chief NO (CNO), CNO, and Deputy Director of Nursing Services.

Study instrument

The questionnaire was adapted from one used for a similar study carried out in Oman\(^9\) with changes made to reflect local realities. It was pretested among ten nurses in another tertiary healthcare facility in Ekiti State and necessary revisions made before being administered to the participants. The instrument demonstrated a high internal consistency reliability coefficient (Cronbach’s alpha = 0.79).

Sampling

A minimum sample size of 95 was estimated using Fischer’s formula:

\[
N = \frac{Z^2 PQ}{D^2}
\]

(Where \(N\) = Minimum sample size, \(Z\) = Standard normal deviate usually set at 1.96, \(P\) = Proportion of people with a particular characteristic (11% in this case, i.e. 0.11), \(Q = 1 - P\) (0.89) and \(D = Degree of accuracy usually set at 0.05\)).

However, 120 questionnaires were distributed to make allowance for nonrespondents and to give the study better power.

A random sampling of the nursing staff was done, and the questionnaires were distributed to the participants through various unit heads. The nurses were informed of the voluntariness of participating in the study, and their confidentiality was assured by the absence of identifiers on the questionnaire. They were to be filled during any of the unit activities and returned to a collection point in their unit or department. The time frame for collection of the questionnaire from the unit heads was 1 week, and any questionnaire returned after that period was not included for data analysis. The questionnaire apart from the age, duration of practice and professional position of respondents had sections about knowledge of palliative care, its philosophy, communication issues and medications used among others.

Data analysis

The information obtained from the questionnaire was coded, entered, and analyzed using IBM SPSS version 19 (IBM Corporation, Armonk, NY, USA). Analysis was performed using descriptive statistics was used to obtain the general characteristics of the study participants. Chi-square test was used to determine the level of significance of groups of categorical variables \(P < 0.05\) were considered as significant.

Ethical considerations

Ethical clearance was obtained from the Hospital Research Ethics Committee before the commencement of the study. The filling and submission of the questionnaires by the nurses were taken as their explicit consent.

Result

One hundred questionnaires were returned and used for analysis, a response rate of 83.3% (100/120). Females constituted majority 90% (90/100) of the respondents and the mean age was 39.3 (9.9) years with a 95% confidence interval of 37.3-41.3 years. The distribution of the nurses according to their ranks is shown in Figure 1. Almost half of the respondents (46/100) practiced for more than 10 years, 24% (24/100) for between 5 and 10 years and the remaining 30% for <5 years. Regarding the respondents understanding of palliative care, 71.8% (48/66) knew that it was mainly about pain medicine, while 55% (33/60) felt that it was about geriatric medicine. Eighty-three (90.2%) were convinced that palliative care was about the active care of the dying while 64.6% (42/65) believed that it was synonymous with rehabilitation medicine. There was a statistically significant difference among the various categories of nursing staff in the area of definition of palliative care as active care of the dying (\(P = 0.04\)). There was no statistically significant difference in the nurses definition of palliative care as pain medicine (\(P = 0.51\)), geriatric medicine (\(P = 0.51\)), and rehabilitation medicine (\(P = 0.35\)). The responses of participants regarding the philosophy of palliative care and the patients requiring it are shown in Table 1.
Fadare, et al.: Nurses’ perception of palliative care

Fifty-nine respondents (79.7%) recognized delirium as a major nonpain symptom seen in palliative medicine, while breathlessness was also chosen by 80% (56/65) of the participants (statistically significant difference with a $P<0.001$ and $P < 0.01$, respectively). Regarding the communication of prognosis to the patient, 83.9% (68/80) of the nurses felt that is the right thing to do and 92.2% (70/76) of respondents acknowledged that patient wishes should always be respected. Apart from medical doctors, nurses, pharmacists and social workers, religious leaders were also recognized by 89.2% (74/83) of respondents as part of the palliative care team. Advanced medical directive was recognized as a document through which the patient states his preferences about future medical practices by 85.6% (77/90) of respondents while 67.2% (39/57) of the nurses knew that it was synonymous with the term “living will”. The respondents’ knowledge about the use of morphine and pentazocine in palliative care is shown in Table 2. Pain and symptom management, clear decision-making and preparation for death were identified as components of a good death by 90.1% (73/81), 89.6% (61/67) and 90.2% (74/82) respondents respectively.

**Discussion**

The knowledge of respondents regarding the definition, philosophy and potential beneficiaries of palliative care was surprisingly very good considering that palliative care is a relatively new branch of medicine in Nigeria. The preponderance of female nurses among our study population reflects the general trend of gender distribution in the nursing profession. Regarding the definition of palliative care, majority (90.2%) of the nurses in our study knew that palliative care was about the active care of the dying, higher than 60.3% found in a study among medical undergraduates in Oman. One of the major objectives of palliative care is to affirm life while recognizing death as a normal process. In a study among nurses in Lebanon, 84.6% of them recognized this objective, a finding at variance from 62.5% found among our respondents. The belief that palliative care is mainly for cancer patients was again reflected in our study. However, it is interesting to note that 88% of the nurses felt that all dying patients would require palliative care. This is more than 34.2% found in the earlier cited study among medical undergraduates in Oman. The importance of palliative care in other chronic conditions like end stage heart failure and HIV/AIDS has been emphasized in various studies. The contribution of palliative care to better management of HIV/AIDS patients have been demonstrated in Uganda. In a study carried out in India, only 19.3% of medical undergraduates knew that patients with end stage heart failure are candidates for palliative care, lower than 71% in our study. The communication of bad news (diagnosis or prognosis) to patients has always been a controversial issue. According to ethical norms, competent patients have a right to have all information regarding their medical condition. This is not so in practice because of the influence of many factors

| Table 1: Nurse’s knowledge of the philosophy of palliative care |
|---------------------------------------------------------------|
| **Yes (%)** | **No (%)** | **Don’t know (%)** | $\chi^2$ | 95% CI |
| Philosophy of palliative care | | | | | |
| Affirms life | 40 (62.5) | 17 (26.6) | 7 (10.9) | 0.28 | 0.21-0.39 |
| Recognizes dying as a normal process | 66 (80.5) | 14 (17.1) | 2 (2.4) | 0.24 | 0.12-0.28 |
| Hastens death | 8 (13.8) | 48 (82.8) | 2 (3.4) | 0.03 | 0.00-0.06 |
| Prolongs life | 67 (90.5) | 5 (6.8) | 2 (2.7) | 0.02 | 0.00-0.05 |
| Palliative care is needed for | | | | | |
| All dying patients | 74 (84.1) | 14 (15.9) | 0 | 0.89 | 0.85-0.97 |
| Metastatic cancer with uncontrolled pain | 66 (88) | 8 (10.75) | 1 (1.3) | 0.09 | 0.07-0.21 |
| End stage heart failure | 44 (71) | 17 (27.45) | 1 (1.6) | 0.12 | 0.08-0.22 |
| Debilitating illness like rheumatoid arthritis | 50 (82) | 9 (14.7) | 2 (3.3) | 0.34 | 0.21-0.39 |

CI: Confidence interval

| Table 2: Nurse’s knowledge about use of opioid analgesics |
|---------------------------------------------------------|
| **Yes (%)** | **No (%)** | **Don’t know (%)** | $\chi^2$ | 95% CI |
| Morphine | | | | | |
| Causes death in all dying patients | 11 (17.5) | 49 (77.8) | 3 (4.7) | 0.42 | 0.29-0.46 |
| Improves quality of life | 42 (68.9) | 13 (21.3) | 6 (9.8) | 0.75 | 0.71-0.87 |
| Relieves all kinds of pain | 78 (89.7) | 7 (8) | 2 (2.3) | 0.03 | 0.00-0.06 |
| Relieves breathlessness in heart failure | 23 (37.7) | 32 (52.5) | 6 (9.8) | 0.31 | 0.28-0.47 |
| Pentazocine | | | | | |
| Causes death in all dying patients | 10 (16.7) | 42 (70) | 8 (13.3) | 0.01 | 0.001-0.09 |
| Improves quality of life | 49 (75.4) | 12 (18.55) | 4 (6.1) | 0.82 | 0.82-0.94 |
| Relieves all kinds of pain | 84 (87.5) | 10 (10.4) | 2 (2.1) | 0.03 | 0.002-0.08 |
| Relieves breathlessness in heart failure | 22 (33.8) | 38 (58.5) | 5 (7.7) | 0.04 | 0.00-0.06 |

CI: Confidence interval
such as culture, religion and patient’s peculiarities.\cite{14,15}
In this study, 83.9% of the nurses thought that the patient
should be informed of their prognosis, the same response
from a Lebanese study among nurses.\cite{10} The knowledge
of advanced medical directives among participating nurses
was encouraging despite the fact that it is a relatively new
concept in developing countries like Nigeria. The use of
opioid analgesics like morphine in patients with chronic
life-threatening conditions has always been associated with
a lot of misconceptions.\cite{16,17} Our study showed that 17.5% of
respondents felt that the use of morphine would hasten
death while 89.7% believed that morphine relieves all kinds
of pain. A study among general practitioners in Italy showed
that 22.2% feared that opioids would shorten the patient’s
lifespan while 32.5% were afraid of the side-effects of the
drug.\cite{18} Bernardi et al. in their study also found significant
gaps in the knowledge of Italian oncology nurses about
opioid use in patients.\cite{19} Another study among nurses in
Turkey showed that they have inadequate knowledge about
the management of cancer pain while the most frequent errors
in a Brazilian study among healthcare workers were related to
the use of opioids.\cite{20,21}

The knowledge of nurses about palliative care depends a lot
on training both at undergraduate and postgraduate levels.
Adriaansen et al. found out that attendance of postqualification
courses in palliative care by nurses has a positive effect
especially in the area of pain and symptom management.\cite{22}
Studies among nurses have reported improved confidence
in pain management after interventions such as educational
programs.\cite{23,24} Efforts to integrate palliative care into the
nursing undergraduate curriculum in an Australian university
have been described by Ramjan et al.\cite{25} The implications of the
study findings for nursing practice in Nigeria is the need for a
practice-based palliative care training program, especially in
the area of its philosophy, the group of patients requiring palliative
care and the use of opioid analgesics in this group of patients.

Future research directions in the area of palliative care nursing
in Nigeria should focus on pre- and post-interventional studies
in the use of opioids in palliative care.

**Study limitations**
The bias of the respondents towards certain issues and incidence
of skipped questions are some limitations encountered in this
study. To address this, respondents were asked not to disclose
their identities and were re-assured that the study was strictly
for research. While the results of our study may not be
generalizable for the whole country, it may reflect the situation
in similar tertiary healthcare institution in Nigeria.

**Conclusion**
While the level of knowledge of Nigerian nurses regarding
the definition and philosophy of palliative care is impressive, there
are significant gaps in other areas. The need for continuous
medical education for nurses and more importantly the
undergraduate nursing curriculum should be reviewed to
include this emerging branch of medicine.

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**References**
1. Harding R, Higginson IJ. Palliative care in sub-Saharan Africa.
Lancet 2005;365:1971-7.
2. Smith AK, Thai JN, Bakitas MA, Meier DE, Spragens LH, et al. The diverse landscape of palliative care clinics.
J Palliat Med 2013;16:661-8.
3. Smith TJ, Coyne PJ, Cassel JB. Practical guidelines for developing new palliative care services: Resource management.
Ann Oncol 2012;23 Suppl 3:70-5.
4. Soyannwo OA. Palliative care and nursing. Afr J Med Sci 2009;38 Suppl 2:67-70.
5. Onyeka TC, Velijanashvili M, Abdissa GJ, Manase FA, Kordzaia D. Twenty-first century palliative care: A tale of
four nations. Eur J Cancer Care (Engl) 2013;22:597-604.
6. Onyeka TC. Palliative care in enugu, Nigeria: Challenges to a new practice. Indian J Palliat Care 2011;17:131-6.
7. Nwankwo KC, Ezeeome E. The perceptions of physicians in southeast Nigeria on truth-telling for cancer diagnosis and
prognosis. J Palliat Med 2011;14:700-3.
8. Adenipekun A, Onibokun A, Elumelu TN, Soyannwo OA. Knowledge and attitudes of terminally ill patients and their
family to palliative care and hospice services in Nigeria. Niger J Clin Pract 2005;8:19-22.
9. Jahan F, Shibli HS, Qatan RS, Al Kharusi AA. Perception of undergraduate medical students in clinical years regarding
palliative care. Middle East J Age Ageing 2013;10:22-31.
10. Abu-Saad Huijer H, Dimassi H. Palliative care in Lebanon: Knowledge, attitudes and practices of physicians and nurses.
J Med Liban 2007;55:121-8.
11. Shah AB, Morrissey RP, Baraghoush A, Bharadwaj P, Phan A, Hamilton M, et al. Failing the failing heart: A review
of palliative care in heart failure. Rev Cardiovasc Med 2013;14:41-8.
12. Kell ME, Walley JD. Palliative care for HIV in the era of antiretroviral therapy availability: Perspectives of nurses in
Lesotho. BMC Palliat Care 2009;8:11.
13. Bogam RK, Kumbhar SM, Sahu SB, Marie AS, Sagare SM, Chowdhury YS. Knowledge of palliative care among
undergraduate medical students in rural medical college of Maharashtra. Natl J Community Med 2012;3:666-9.
14. Windsor JA, Rossaak IP, Chaung D, Ng A, Bissett IP, Johnson MH. Telling the truth to Asian patients in the hospital
setting. N Z Med J 2008;121:92-9.
15. Tavakol M, Murphy R, Torabi S. Educating doctors about breaking bad news: An Iranian perspective. J Cancer Educ
2008;23:260-3.
16. Devulder J. Persisting misconceptions of Belgian physicians and nurses about cancer pain treatment. Acta Clin Belg
1999;54:346-50.
17. Murnion BP, Gnjidic D, Hilmer SN. Prescription and administration of opioids to hospital in-patients, and barriers to effective use. Pain Med 2010;11:58-66.
18. Salvato C, Aretini G, Serraglia D, Terrazzani G, Debetto P, Giusti P, et al. Opioid prescription for terminally ill outpatients in a district of northern Italy: A retrospective survey. Pharmacol Res 2003;48:75-82.
19. Bernardi M, Catania G, Lambert A, Tridello G, Luzzani M. Knowledge and attitudes about cancer pain management: A national survey of Italian oncology nurses. Eur J Oncol Nurs 2007;11:272-9.
20. Yildirim YK, Cicek F, Uyar M. Knowledge and attitudes of Turkish oncology nurses about cancer pain management. Pain Manag Nurs 2008;9:17-25.
21. de Freitas GR, de Castro CG Jr, Castro SM, Heineck I. Degree of knowledge of health care professionals about pain management and use of opioids in pediatrics. Pain Med 2014;15:807-19.
22. Adriaansen MJ, van Achterberg T, Borm G. Effects of a postqualification course in palliative care. J Adv Nurs. 2005;49:96-103.
23. Shipman C, Burt J, Ream E, Beynon T, Richardson A, Addington-Hall J. Improving district nurses’ confidence and knowledge in the principles and practice of palliative care. J Adv Nurs 2008;63:494-505.
24. Hansen L, Goodell TT, Dehaven J, Smith M. Nurses’ perceptions of end-of-life care after multiple interventions for improvement. Am J Crit Care 2009;18:263-71.
25. Ramjan JM, Costa CM, Hickman LD, Kearns M, Phillips JL. Integrating palliative care content into a new undergraduate nursing curriculum: The University of Notre Dame, Australia – Sydney experience. Collegian 2010;17:85-91.

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