



**GOOD PALLIATIVE NURSING CARE: DESIGN AND
VALIDATION OF THE PALLIATIVE NURSING CARE QUALITY
SCALE (PNCQS)**

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ABSTRACT

Aims: Develop and psychometrically assess the Palliative Nursing Care Quality Scale (PNCQS, escala de Calidad del Cuidado Enfermero Paliativo, CCEP, in Spanish). An interview-based qualitative study was conducted to verify construct validity evidence, with psychometric properties of reliability and validity verified by two quantitative studies.

Design: Quantitative instrumental, correlational and transversal.

Methods: Study 1 was carried out with 10 key informants. For study 2, a sample of 103 nursing professionals was obtained, and 176 nurses from palliative care resources in Spain participated in study 3. Data were collected between May 2017 and May 2018.

Results: Evidence of adequate reliability (internal consistency) and validity was found. The confirmatory factor model yielded a single latent factor for the 20 items, with favorable goodness of fit indices. The convergent validity data showed that the highest correlations were with the Dedication subscale of the *Utrecht Work Engagement Scale* and the Personal Growth subscale of Psychological Well-being, with values of .35 ** and .34 ** respectively.

Conclusion: The scale shows very good psychometric properties, with high internal consistency and evidence of internal and convergent validity.

Impact: Proposing a valuable instrument which identifies good nursing in different areas of palliative care while also establishing quality indicators to guide nursing practice entails the recognition of autonomy in care. The resulting work tool can be used to systematize the assessment of nursing care in a process of open and continuous improvement.

Key words: "scale design" "quality palliative care" "end of life nursing care" "instrument development"

INTRODUCTION

Caring is an intrinsic part of the nursing profession; in the field of palliative care, the nursing professional plays a fundamental role in improving the quality of life of patients with advanced and terminal illness.

Ensuring quality requires deep reflection on the part of professionals on the values, knowledge, attitudes and norms which guide them towards the conceptualization of the internal good and to continuous improvement. The nursing profession needs to construct specific indicators which are sensitive to nursing practice and which measure aspects of the experiences, behaviors or state of health of people affected by the quantity and quality of nursing care (Planas-Campmany & Icart-Isern, 2014).

Assessing the quality of palliative nursing care is usually done from the perspective of the patient's and/or the family's satisfaction with the care received from the team. However, questionnaires specifically assessing palliative nursing care are scarce, even more so in Spain, where no specific measuring instrument is available. The general objective of this study is, therefore, to design and validate a scale which assesses the quality of palliative nursing care as perceived by the nursing professionals themselves.

To this end, we describe firstly the available knowledge on the quality of nursing care, secondly the quality of palliative care in general, and, finally and more specifically the quality of palliative nursing care.

Background

Nursing care quality

The nature of care, the reason for providing it, the objectives and the physical, financial, technological and human resources are the components making up nursing care quality. The assessment of nursing care quality should be a continuous and flexible process, based on data regarding structure, process and outcome (Donabedian, 1988).

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3 The development of taxonomies and classifications relating to nursing
4 interventions and the classification of nursing outcomes, better known as *Nursing*
5 *Outcomes Classification* (NOC), has served as a benchmark for measuring nursing
6 practice. However, existing indicators which are applied in the measurement of the
7 quality and performance of health organizations have been used for some time to assess
8 nursing practice. In 2004, the American *National Quality Forum* (NQF) facilitated the
9 approval of a set of nursing standards, the NQF-15, which allowed nursing performance
10 measures to be identified in Anglo-Saxon countries. Once these indicators or standards
11 of quality of care have been identified, reliable instruments need to be established to
12 assess quality from a multidimensional perspective.
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27 The measurement instruments found mainly assess nursing care quality as
28 perceived from a patient satisfaction perspective. At the international level, we can
29 highlight instruments such as the *Newcastle Satisfaction With Nursing Scale* (NSNS) of
30 Thomas, McColl, Priest, Bond and Boys (1996), *Karen*, validated by Anderson and
31 Lindgren in 2008, and the human care scales based on Watson's transpersonal theory:
32 *Caring Efficacy Scale* (CES) and *Nyberg's Caring Assessment* (NCA), validated by
33 Poblete-Troncoso, Valenzuela-Suazo and Merino (2012).
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44 In Spain, the following have been used, among others: Nursing Care Quality
45 Questionnaire (CUCADE in Spanish) by Alonso, Blanco-Ramos and Gayoso (2005), the
46 *Caring Assessment Instrument* (CARE-Q) by Sepúlveda, Rojas, Cárdenas, Rojas, and
47 Castro (2009), or the Perception of Humanized Nursing Care Behaviors Questionnaire
48 (PCHE in Spanish) by Reina and Vargas (2008) (Borré, Lenis & González, 2014).
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3 All these questionnaires can be applied to the general hospital care setting but are
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5 not designed in particular to assess specific aspects of the quality of nursing care in
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7 palliative contexts.
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10 11 12 **Quality of care in palliative contexts** 13

14 There is a broad consensus on the essential areas which constitute palliative care quality.
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16 The *National Consensus Project* (NCP) established eight domains which integrate the
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18 quality of palliative care. The NQF also identified 38 examples of good practice related
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20 to these eight domains (Ferrell et al., 2007), and Heyland et al. (2010) identified the areas
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22 of least satisfaction and those considered most important through the *Canadian Health*
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24 *Care Evaluation Project Questionnaire* (CANHELP). According to Murlaski et al.
25
26 (2007), the nine domains for assessing the quality of palliative care are: symptom control,
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28 holistic consideration of the person and their quality of life, functional aspects,
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30 satisfaction, interpersonal relationships, decision making and care planning, continuity
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32 and communication, family burden and well-being, and finally the quality of death and
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34 end-of-life experience.
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40 The European Association for Palliative Care (EAPC) has developed up to 12
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42 recommendations for designing and using different quality measurement instruments in
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44 palliative care (Bausewein et al., 2016). Of these, we can highlight that assessment
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46 instruments should be multidimensional measures to capture the holistic nature of
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48 palliative care to assess not only the needs of the patient but also the family and
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50 caregivers, and that they should be appropriate to the clinical practice of the professionals
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52 who work in palliative care.
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56 The *Palliative Care Outcome Scale* (POS) scale, validated by Serra-Prat, Nabal,
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58 Santacruz, Picaza, & Trelis (2004) is a fitting example. It consists of a version for
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3 professionals and another for patients. It assesses different aspects of palliative care in
4 patients with advanced neoplastic disease and consists of 10 items and an open question.
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6 While not providing a global score, the POS provides a useful profile in the evaluation of
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8 palliative care and is not focused on nursing work in particular.
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14 **Quality of palliative nursing care**

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16 The *Standards for hospice palliative care nursing*, quality standards developed by the
17 *Canadian Palliative Care Association (CPCA)* in 2001, are based on the theoretical
18 model of *Supportive Care* by Davies and Oberle (1990), which includes six interrelated
19 dimensions (Canadian Hospice Palliative Care Association Nursing Standards
20 Committee, 2002). More recently, Dobrina, Tenza and Pales (2014) reviewed three
21 models of care, among which Reed's unitary model (2010) stood out. This model is based
22 on the quality standards established by the EAPC in 2009 to improve the advanced
23 practice of palliative nurses. In Spain, the Spanish Association of Palliative Nursing Care
24 (AECPAL in Spanish) established the values and competencies of a good palliative care
25 nurse.
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40 With regard to specific assessment instruments for assessing the quality of
41 palliative nursing care, Cameron and Johnston (2015) developed and validated the
42 *Quality Measure for Palliative Nursing questionnaire*, organized across five topics:
43 personal characteristics of nurses (strategies for coping with stress, emotional
44 intelligence, empathy and authenticity), communication skills, knowledge of palliative
45 care, professional relationship with the patient and care oriented towards well-being or
46 comfort. Nakazawa et al. (2010) proposed the development of two measuring
47 instruments, the *Palliative Care Self-Reported Practices Scale (PCPS)* scale and the
48 *Palliative Care Difficulties Scale (PDCS)* scale, with the aim of assessing the
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3 effectiveness of training programs in improving the skills of professional palliative care
4 nurses. The questionnaires were validated in a sample of 797 nurses in Japan, and 18
5 items were subsequently selected for the PCPS, distributed across six domains: terminal
6 care, patient and family-centered care, dealing with pain, dyspnea, delirium, and
7 communication. For the PDCS, 15 items were selected, grouped into five domains which
8 included: communication in the multidisciplinary team, communication with the patient
9 and family, expert support, symptom relief and coordination with other services such as
10 home care. The internal reliability of both scales was good, with Cronbach's α for the
11 PCPS between .80 and .91, and between .85 and .93 for the PDCS (Nakazawa et al.,
12 2010).
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26 As we can see, instruments used to assess the quality of nursing care are not
27 common and, in addition, measure quality from a patient satisfaction perspective, and
28 only in hospital settings. The lack of studies assessing the quality of palliative nursing
29 care from the perspective of the professionals leaves a field of research open to
30 exploration.
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42 **THE STUDY**

43 **Aims**

44 The purpose of the study was to develop and test the psychometric properties of the
45 Palliative Nursing Care Quality Scale (PNCQS, CCEP in Spanish). For this purpose, three
46 studies were carried out. Study 1 was qualitative, to demonstrate the validity of the
47 construct; study 2 was a pilot study to analyze reliability in terms of the scale's internal
48 consistency and structure through exploratory factor analysis; study 3 analyzed internal
49 validity through confirmatory factor analysis and the convergent validity of the PNCQS.
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3 We hope the scale yields adequate internal consistency, a unifactorial structure
4 and significant correlation with the variables of well-being, work engagement, and
5 provisional meaning, since many of the theoretical principles which form the basis of
6 good palliative nursing care, including finding meaning in one's work, taking care of
7 oneself, promoting self-awareness and self-reflection, seem to be related to these
8 variables.
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19 **Study 1**

21 **Methodology**

23 The aim of this study was to configure the dimensions and elements of the scale. To this
24 end, after defining the "quality of palliative nursing care" construct on the basis of a
25 review of the literature, we considered the nine domains for assessing the quality of
26 palliative care according to Murlaski et al. (2007), the nursing care plans prepared by the
27 AECPAL working group, and two of the few instruments found in the literature, the PCPS
28 and the PDCS, by Nakazawa et al. (2010), described above.
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37 The scale was structured in five dimensions: Control and Relief of Symptoms,
38 Family and/or Primary Caregiver, Therapeutic Relationship with the patient and family,
39 Spiritual Support and Continuity of Care, including the most relevant topics, which will
40 be described in the instrument section. To evaluate these, 19 items were drawn up in
41 accordance with suggestions by Morales, Urosa and Blanco (2003), and Martín-Arribas
42 (2004), with a proposed response format of a five-point Likert-type scale (1 = *almost*
43 *never* and 5 = *almost always*).
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53 Ten semi-structured interviews were subsequently conducted with a series of key
54 informants: nine professionals in the field of palliative care and the primary caregiver of
55 a person in an end-of-life situation. The first version of the scale consisted of 19 items;
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3 however, once the results of the semi-structured interviews were analyzed, the final
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5 version of the PNCQS with 20 items (Appendix 1) was prepared.
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8 The resulting scale was reviewed by three skilled nurses in the field of palliative
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10 care, who confirmed that the scale represented the essential aspects of palliative nursing
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12 care and found that its items were easy to understand.
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14 The data collection period was from May to September 2017.
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16 **Ethical considerations**

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18 The interview process guaranteed the ethical criteria of data confidentiality, informant
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20 anonymity, voluntariness of the interviewees and the right of the participants to abandon
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22 the study.
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25 **Study 2**

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27 Study 2, which was quantitative in nature, was undertaken to analyze the psychometric
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29 properties of the scale, its reliability (internal consistency using Cronbach's Alpha) and
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31 evidence of its internal structure (exploratory factor analysis).
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34 **Sample/Participants**

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36 In study 2, a total of 103 nursing professionals took part, 3 of whom were eliminated due
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38 to a response error, thus leaving a final sample of N = 100. Those nursing professionals
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40 who worked in the various public, private and publicly subsidized palliative care
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42 resources of the Community of Madrid were selected through the information bank of the
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44 Madrid Association of Palliative Care and with the collaboration of AECPAL. The
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46 management and nursing supervisors of the acute and medium-stay palliative treatment
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48 units were contacted to help with the dissemination of the online scale. The print version
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50 of the scale was also presented in some of the palliative units, and its anonymous and
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3 confidential nature was affirmed. Data were collected from October 2017 to January
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5 2018.
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7 **Instrument**

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10 The Palliative Nursing Care Quality Scale (PNCQS) scale consists of 20 items which
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12 assess the five most representative dimensions related to palliative nursing care. It is a
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14 self-assessment scale to be answered by the nursing staff, with a Likert-type response
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16 format of 1 to 5 (1 = *almost never* and 5 = *almost always*). The first dimension of the
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18 scale, Control and Relief of Symptoms, includes aspects such as pain, dyspnea,
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20 constipation, anxiety and asthenia. It consists of three items, such as "evaluate the
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22 effectiveness of care by asking the patient and/or family about their well-being or
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24 comfort." The second dimension, Family and/or Primary Caregiver has five items such
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26 as, for example, "support family members and/or primary caregiver in their work of
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28 caring for and accompanying the patient". The third dimension, Therapeutic Relationship
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30 with the patient and family has five items, such as "help the patient and/or family to reflect
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32 on or clarify concerns about pending issues". An example of the five items comprising
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34 the fourth dimension, Spiritual Support, is "together with the patient, seek elements of
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36 satisfaction which have value for him/her". Finally, the fifth dimension, Continuity of
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38 Care, has two items, one of which is "ensure communication and coordination between
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40 all team members and the different levels of care". The total score ranges between 20 and
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42 100 points, with higher scores indicating higher perceived quality of palliative nursing
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44 care.
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51 Data collection took place from October 2017 to December 2017.
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RESULTS

The distribution of the items was asymmetric, with excess kurtosis (values > 1). Using the FACTOR program (Lorenzo-Seva & Ferrando, 2006), an exploratory factor analysis of the PNCQS was performed with polychoric correlations, which are appropriate when there is an asymmetry or excess kurtosis in the variable distributions (Freiberg, Stover, Iglesia, & Fernández, 2013). Prior to the exploratory factor analysis, we calculated the Cronbach α reliability statistic and the KMO measure of sample adequacy, and applied the Bartlett test. Finally, the Robust Unweighted Least Squares (RULS) and Promin rotation for factor extraction were applied.

The PNCQS results yielded good internal reliability, with a Cronbach's α of .94. The data obtained to assess the fit and adequacy of the factor analysis were good, with a KMO of .91 and a significant Bartlett sphericity test, $p < .001$.

Table 1 shows the descriptive statistics of each item on the scale.

Exploratory factor analysis indicated the clear existence of a single factor which explained 62.7% of the total variance. The factor weight values of the 20 items were very similar and all saturated to one factor, so there are no clear criteria for eliminating or modifying any of the items. Table 2 describes the relationship between the 20 items and the extracted factor.

Study 3

Study 3, also of a quantitative nature, was designed to assess the scale's internal validity through confirmatory factor analysis, and convergent validity through correlations with the constructs of psychological well-being, work engagement and sense of care.

Sample/Participants

Study 3 involved 176 nursing professionals who were not the same as those in study 2.

Study 3 participants came from different palliative centers in Spain and a total population

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3 of N = 1016 (Oriol, Gómez, Gándara & Herrera, 2014). Table 3 shows the distribution of
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5 the sociodemographic and employment variables of the sample. In order to contact the
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7 professionals, a meeting was held with the nursing supervisors and with the coordination
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9 of palliative care in the Health Service of the Community of Madrid. In the other
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11 Autonomous Communities, representatives of the board of directors of AECPAL were
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13 approached personally to explain the objective of the study and request their
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15 collaboration. The SECPAL directory of palliative resources (Doblado et al., 2016) was
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17 used to contact people in charge of the healthcare teams in the different palliative fields
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19 (hospital, social health and home) via email and telephone, and coordination structures
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21 and non-healthcare resources related to palliative care were also contacted. Finally, the
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23 scale was disseminated through the different academic social networks. Data collection
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25 was carried out from January to May 2018.

31 **Instruments**

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33 The Palliative Nursing Care Quality Scale (PNCQS), already described in study 2.

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36 The Sense of Care Scale (SCS), which assesses the sense of care in family
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38 caregivers of patients with dementia. The Spanish version of the *Finding Meaning*
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40 *Through Caregiving Scale*, translated and validated into Spanish by Fernández-Capo and
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42 Gual-García (2005), consisting of 43 items scored on a Likert-type scale (1 = *strongly*
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44 *disagree* and 5 = *strongly agree*), with a total score ranging from 43 to 215 points. These
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46 items are distributed across three subscales: Powerlessness/Loss (PL), Provisional
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48 Meaning (PM) and Ultimate Meaning (UM). In this investigation we used the Provisional
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50 Meaning scale (PM), adapted to nursing professionals in the palliative field. It consists of
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52 12 items, such as: "Caring for my patients and/or relatives gives my life direction and
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54 meaning", with a scoring range from 12 to 60 on which higher scores reflect a greater
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56 sense of care. In our study this scale yielded a Cronbach's α coefficient of .91.
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3 The Ryff Psychological Well-being scale (1989) was used in its abbreviated form
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5 adapted and validated in the Spanish population by Díaz et al. (2006). The new
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7 abbreviated version of 29 items presents an excellent level of fit to the theoretical model
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9 and good internal consistency. Its items, with a response range of 1 to 6 (1 = *strongly*
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11 *disagree*, 6 = *strongly agree*), are distributed across six subscales: Self-Acceptance (SA),
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13 Positive Relationships (PR), Environmental Mastery (EM), Personal Growth (PG),
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15 Purpose in Life (PL), and Autonomy (A). Oliver, Sansó, Galiana, Tomás, and Benito
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17 (2017) validated the Ryff Psychological Well-being scale with 123 nursing professionals
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19 in the field of palliative care, finding good mean fit and adequate reliability for all
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21 dimensions except Autonomy. In our study, the reliability of the total Psychological Well-
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23 being Scale was good, with a Cronbach's α of .89. The internal consistency values of the
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25 six subscales ranged from .47 for Autonomy to .83 for Personal Growth. Given the
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27 Autonomy subscale's low reliability, its results were discarded.
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34 The *Utrecht Work Engagement Scale* (UWES) was used to assess how
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36 professionals felt about their work. Its Spanish adaptation was used with a sample of
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38 workers by Salanova, Shaufeli, Llorens, Peiro and Grau (2000). The UWES is composed
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40 of 17 items organized in three subscales, Vigor (Vi), Dedication (De) and Absorption
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42 (Ab), the responses to which are scored on a seven-point scale (0 = *never, at no time*, 6 =
43
44 *always, every day*) and reflect the frequency of feelings experienced at work. The internal
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46 consistency values of Cronbach α of the UWES in our study were .80 for the total UWES
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48 and from .68 to .76 for the three subscales.
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53 **Ethical considerations**

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55 For both study 2 and 3, prior to the application of the scale and participation of the
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57 professionals, the attached approval of the Ethics Committee of the institution where the
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3 research was conducted was presented, and the anonymous and confidential nature was
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5 of the scale was affirmed.
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10 RESULTS

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12 Confirmatory factor analysis was performed with Mplus, version 7.11 (Muthén &
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14 Muthén, 2012). Goodness of fit, mean and adjusted variance indices were estimated using
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16 the WLSMV (*Mean-and Variance-adjusted Weighted Least Square*) method for an
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18 adequate analysis of categorical data and to obtain robust indices, as well as appropriate
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20 estimates of the parameters and their margins of error (Rincón et al., 2014).
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24 The scale factor model contains a single latent factor for the 20 items, the
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26 standardized factor loads of which are shown in Table 4.
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29 The scale's 20 items presented standardized factorial loads, with high values
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31 above .56 indicating that they were largely conditioned by the latent factor value.
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34 For the proposed factor model, the goodness of fit indices yielded the following
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36 values: $\chi^2 (170, N = 176) = 452.856, p < .001, CFI = 0.96, TLI = 0.95, RMSEA = 0.09$
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38 ($CI\ 90\% = .086, .01$), which generally indicated a good fit of the model. The literature on
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40 structural equation modeling recommends RMSEA values equal to or lower than 0.08,
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42 CFI greater than 0.90 and TLI values of 0.90. Although some authors, such as Hu and
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44 Bentler (1999), argue for adherence to the strictest criteria, recent literature questions the
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46 use of rigorous goodness of fit limits and suggests that descriptive model of fit statistics
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48 should be used for the comparison or classification of models (Varas-Díaz, Neilands,
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50 Guilamo-Ramos, & Cintrón, 2010).
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54 As can be seen, the model meets the goodness of fit criteria, with the exception of
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56 the RMSEA approximation error rate, > 0.08 . This may be due to the moderate sample
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58 size; conclusions to be drawn from data with regard to the distribution of the fit indices
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3 and the standard errors for the estimated parameters are more reliable as sample size
4 increases (Herrero, 2010). It may also be because when the polychoric matrix is not
5 defined as positive, the goodness of fit indicators derived from the chi-square test may be
6 incorrect, so it is recommended that fit be assessed with indicators which do not depend
7 directly on chi-square such as the GFI index and RMCR (Ferrando & Lorenzo-Seva,
8 2014).
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17 Confirmatory factor analysis shows that the items which were most conditioned
18 by the latent factor were item 7 (Support family members and/or primary caregiver in
19 their work of caring for and accompanying the patient), item 12 (Help the patient and/or
20 family to reflect on or clarify concerns about pending issues) and item 15 (Together with
21 the patient, seek elements of satisfaction which have value for him/her).
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29 After performing the confirmatory factor analysis of the scale, its convergent
30 validity was measured. Significant correlations are shown in Table 5.
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34 In line with expectations, all correlations were significant and positive. The
35 highest correlations of the Palliative Nursing Care Quality Scale were with the
36 Psychological Well-being Scale ($r = .34$), particularly with the Personal Growth subscale
37 ($r = .34$) and with the Work Engagement Scale (UWES) ($r = .33$), in particular with its
38 Vigor ($r = .34$) and Dedication ($r = .35$) subscales.
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47 **DISCUSSION**

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49 The Palliative Nursing Care Quality Scale (PNCQS) yielded adequate psychometric
50 properties, both in terms of reliability and evidence of its construct validity, internal
51 structural validity and convergent validity.
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56 In addition to very high internal consistency, the evidence of the scale's internal
57 structural validity points to the existence of a single factor. The 20 items of the scale are
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3 organized around a single dimension, which suggests that the quality of palliative nursing
4 care is a more global and comprehensive concept than one differentiated by areas. The
5 three items most conditioned by the latent factor of the scale are those related to the
6 encouragement and support of family care work, dealing with pending issues of the
7 patient and/or family and seeking to find elements of satisfaction for the patients which
8 are meaningful to them. According to the qualitative analysis of the study, the most
9 representative items of the PNCQS scale are those related to the dimensions of good
10 nursing care which centers on the patient and/or family, respecting their final wishes and
11 the things which have value or meaning for them, rather than for the professional.
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24 The validity of the measurement model is supported by both confirmatory factor
25 analysis, which shows the suitability of the model to the goodness of fit criteria, with the
26 exception of the RMSEA approximation error rate, as well as the theoretical criteria based
27 on a deep conceptual review, expert opinion and semi-structured interviews with
28 professionals and relatives of palliative patients.
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35 Finally, evidence of convergent validity is shown by the positive correlations, both
36 significant and moderate, obtained by the Provisional Meaning, UWES and Psychological
37 Well-being scales; the greatest effect is seen in the Personal Growth and Dedication
38 subscales. It is significant that the concepts of personal growth and dedication are the
39 ones most closely related to the quality of palliative nursing care. The Personal Growth
40 subscale reflects the effort to develop one's own potential and achieve the greatest
41 capacity, while the Dedication subscale is related to high work involvement and a feeling
42 of significance, enthusiasm, inspiration, pride and challenge in the job. These results seem
43 consistent with some of the values guiding nursing professionals to provide quality
44 palliative care, including: meaningfulness, understood as a way of furthering patient well-
45 being through nursing care (Reed, 2010), self-improvement, overcoming problems,
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3 motivation, capacity for effort to improve, and maturity, which allows the personal
4 growth of the nursing professional (Codorniu, Guanter, Molins, & Utor, 2013). It seems
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6 logical to expect that those professionals who strive to develop their full potential,
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8 continue to grow as a person, and experience enthusiasm, pride and challenge at work,
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12 will seek excellence or improvement in their care work.
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15 Our qualitative study leads us to the conclusion that to provide good care, it is
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17 necessary to identify the needs and desires of the terminal patient, an aspect which
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19 requires the nursing professional to be self-aware, and secondly, to develop relationship
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21 skills and spiritual accompaniment. These results are in line with the study by Fillion et
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23 al. (2009), who found that nurses who are more aware of their own spirituality, values or
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25 meaning better identified the needs of the patient at the end of life.
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28 **Limitations**

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30 Among the limitations of the design and validation of the PNCQS are, first of all, that the
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32 quality of palliative nursing care is assessed by self-assessment of the professional's own
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34 perception. Although the nursing professional's vision regarding their own care is
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36 essential as the first link in an assessment of quality, it is suggested that future research
37
38 develop an adapted version for family members and/or caregivers and patients in end-of-
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40 life situations.
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45 Second, the moderate sample size $N = 176$ influences the confirmatory factor
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47 analysis result since fit indices and standard error improve when the sample size is larger.
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49 However, given that it is a very specific professional group, the population is not very
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51 wide; in fact, our sample represents more than 17% of the population, which constitutes
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53 a considerable sample.
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CONCLUSION

In conclusion, the design and validation of the PNCQS offers very important contributions to the study of palliative nursing care quality. Carrying out a qualitative study based on interviews which support the concept of nursing care quality, together with two quantitative studies confirming internal and convergent validity, provides a contribution of notable value to the construct validity of the scale. Grounding the concept of “quality of palliative nursing care” in an exhaustive review of the literature, in expert opinion and the experiences of family and professionals in the field of palliative care reflects the sound and coherent approach to careful scale design. In short, the PNCQS allows criteria of proven efficacy to be established when applied in any area of palliative or end-of-life care.

The design of a specific scale which defines good nursing in the field of palliative care is an important milestone for the nursing profession, involving as it does a recognition of our autonomy in care and an attempt to establish indicators to guide our practice. Nurses need tools which facilitate awareness of the activities we carry out every day in search of excellence in the care of the patient and/or family in an end-of-life situation. The possibility of using the scale as a work tool to systematize the assessment of our care in a process of open and continuous improvement represents a contribution worthy of note.

Conflict of Interest statement

The authors declare no conflict of interest

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GOOD PALLIATIVE NURSING CARE: DESIGN AND VALIDATION OF THE PALLIATIVE NURSING CARE QUALITY SCALE (PNCQS)

Table 1

Item Descriptive Statistics

Item	<i>M</i>	<i>SD</i>	Variance	Asymmetry	Kurtosis
1	4.27	0.97	0.93	-1.50	2.12
2	4.49	0.71	0.51	-1.54	2.47
3	4.60	0.61	0.38	-1.29	0.56
4	4.33	0.82	0.68	-1.33	1.94
5	4.43	0.74	0.54	-1.18	0.88
6	4.18	0.88	0.76	-1.08	1.06
7	4.47	0.73	0.52	-1.15	0.41
8	4.42	0.69	0.48	-0.97	0.37
9	4.41	0.75	0.56	-1.12	0.66
10	4.56	0.64	0.40	-1.16	0.21
11	4.62	0.58	0.33	-1.26	0.58
12	4.38	0.73	0.53	-1.04	0.70
13	4.14	0.80	0.64	-0.61	-0.20
14	4.22	0.81	0.65	-0.65	-0.50
15	4.22	0.90	0.81	-1.36	2.04
16	4.09	0.98	0.96	-1.14	0.91
17	3.98	0.96	0.92	-0.78	0.03
18	3.98	1.02	1.04	-0.81	-0.18
19	4.35	0.85	0.72	-1.33	1.13
20	4.40	0.82	0.68	-1.51	2.38

GOOD PALLIATIVE NURSING CARE: DESIGN AND VALIDATION OF THE PALLIATIVE NURSING CARE QUALITY SCALE (PNCQS)

Table 2

Rotated Factor Matrix

Item	Factor 1	Commonality
1	.77	.59
2	.79	.63
3	.78	.62
4	.77	.60
5	.73	.54
6	.71	.50
7	.71	.51
8	.73	.53
9	.74	.56
10	.70	.49
11	.75	.57
12	.76	.59
13	.72	.52
14	.75	.56
15	.80	.63
16	.79	.63
17	.75	.56
18	.76	.57
19	.69	.48
20	.76	.58

GOOD PALLIATIVE NURSING CARE: DESIGN AND VALIDATION OF THE PALLIATIVE NURSING CARE QUALITY SCALE (PNCQS)

Table 3

Distribution of Sociodemographic and Work Variables of the Sample

Variable	Mean	SD	Category	%
Sex			Female	85%
			Male	15%
Age	44.1	9.8		
Autonomous Community			Madrid	30%
			Cataluña	21%
			Andalucía	10%
			Navarra	9%
			Comunidad Valenciana	9%
			Other	21%
Educational level			Vocational Training	7%
			Degree/Diploma	57%
			Postgraduate	36%
Palliative care training			Sí	91%
			No	9%
Emotional training			Yes	74%
			No	26%
Employment category			Nurse	75%
			Nursing assistant	25%
Type of contract			Permanent	82%
			Temporary	18%
Shift			Morning	62%
			Afternoon	6%
			Night	5%
			Rotating	27%
Years of experience	9.7	7.06		
Palliative care field			Social health	21%
			Hospital	36%
			Hospital support	11%
			Home support	32%
Type of patient			Adult	75%
			Pediatric	7%
			Both	18%

GOOD PALLIATIVE NURSING CARE: DESIGN AND VALIDATION OF THE PALLIATIVE NURSING CARE QUALITY SCALE (PNCQS)

Table 4

Factor structure of the PNCQS

Item	Standardized loadings	Standard error
1	.66**	.04
2	.74**	.04
3	.56**	.04
4	.72**	.03
5	.81**	.03
6	.84**	.02
7	.86**	.02
8	.82**	.03
9	.85**	.02
10	.68**	.04
11	.80**	.03
12	.86**	.02
13	.73**	.03
14	.86**	.02
15	.87**	.02
16	.78**	.03
17	.71**	.03
18	.73**	.04
19	.71**	.04
20	.71**	.04

** $p < .01$.

GOOD PALLIATIVE NURSING CARE: DESIGN AND VALIDATION OF THE PALLIATIVE NURSING CARE QUALITY SCALE (PNCQS)

Table 5.

Correlations between the PNCQS, SP, PW, UWES, and their subscales.

	Palliative Nursing Care Quality Scale (PNCQS)
Psychological Wellbeing (PW)	.34**
Self-acceptance	.32**
Positive relationships	.23**
Environmental Mastery	.22**
Personal Growth	.34**
Purpose in Life	.28**
Provisional Meaning (PM)	.24**
UWES	.33**
Vigor	.34**
Dedication	.35**
Absorption	.19*

** $p < .01$ * $p < .05$

GOOD PALLIATIVE NURSING CARE: DESIGN AND VALIDATION OF THE PALLIATIVE NURSING CARE QUALITY SCALE (PNCQS)

Appendix 1.

FINAL VERSION OF THE PALLIATIVE NURSING CARE QUALITY SCALE (PNCQS)

Below, you will find a series of statements about different actions in palliative care. Please read each statement carefully and indicate how often you carry out the following actions in your field of work.

1	2	3	4	5				
Almost never	Occasionally	Sometimes	Often	Almost always				
				1	2	3	4	5
Perform a thorough assessment of pain, e.g. its location, frequency, intensity, and impact on the patient's quality of life.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Provide the necessary means for the management of symptoms (anxiety, asthenia, confusion, dyspnea, pain, constipation, dry mouth, vomiting).				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assess the effectiveness of care by asking the patient and/or family about their well-being or comfort.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Encourage communication with family members and/or primary caregiver in a quiet and private place.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Include family members and/or primary caregiver in planning and executing care, depending on their disposition.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assess family and/or primary caregiver overload.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Support family members and/or primary caregiver in their work of caring for and accompanying the patient.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Help the family and/or primary caregiver to express their feelings about loss and grief.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Be aware of nonverbal messages from the patient and/or family, as well as words they prefer to avoid.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use active listening and silence for non-judgmental understanding of the feelings, thoughts and beliefs of the patient and/or family.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transmit understanding and warmth when the patient and/or family express feelings such as fear, anger or sadness.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Help the patient and/or family to reflect on or clarify concerns about pending issues.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stay with the patient and/or family, especially during periods of greatest suffering.				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

GOOD PALLIATIVE NURSING CARE: DESIGN AND VALIDATION OF THE PALLIATIVE NURSING CARE QUALITY SCALE (PNCQS)

1 2 3 4 5 6	Detect "warning signs" of the spiritual needs of the patient and/or family such as expressions of emotion, values or ethical conflicts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 8 9	Together with the patient, seek elements of satisfaction which have value for him/her.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 11	Help the patient and/or family identify situations of realistic hope.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 13 14	Help the patient when reviewing the most significant events of his/her life.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 16 17	Ask open and specific questions to support the patient in his/her decision making or final wishes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18 19	Ensure communication and coordination between all team members and the different levels of care.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 21 22 23	Adequately inform the patient/family throughout the process of the illness of the resources available for the continuity of care.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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