



# Nursing attitudes in end-of-life care described by the FATCOD scale: a review of the literature

## Actitudes de enfermería en el cuidado de fin de vida descritos por la escala FATCOD: revisión de la literatura

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### ABSTRACT

Introduction: Nursing attitudes toward end-of-life care influence the quality of support provided to dying patients and their families. The Frommelt Attitude Toward Care of the Dying (FATCOD) scale assesses these attitudes. **Objective:** To identify nursing attitudes toward end-of-life care using the FATCOD scale. Methods: A narrative literature review included 40 studies published between 1990 and 2022, retrieved from multiple scientific databases. Results: Turkey and China accounted for 20% of the countries represented. Cultural and linguistic adaptations influenced the scale's dimensions. Participants included nursing students and professionals, predominantly women (92%), with an average age of 36 years. Among professionals, 65% reported training and experiences involving death, compared with 9.1% of students reporting contact with death. Mean FATCOD scores were 88 among professionals and 84 among students, indicating moderate attitudes. Conclusions: The FATCOD scale identifies educational needs and supports strengthening palliative care competencies among nursing students and professionals.

Keywords: attitude; palliative care; end-of-life care; knowledge; FATCOD scale.

### RESUMEN

Introducción: Las actitudes del personal de enfermería ante el cuidado al final de la vida influyen en la calidad de la atención brindada a pacientes terminales y sus familias. La escala Frommelt Attitude Toward Care of the Dying (FATCOD) permite evaluar estas actitudes. **Objetivo:** Identificar las actitudes de enfermería hacia los cuidados al final de la vida mediante la escala FATCOD. Métodos: Se realizó una revisión narrativa de 40 estudios publicados entre 1990 y 2022, recuperados de diversas bases de datos científicas. **Resultados:** Turquía y China representaron el 20% de los países estudiados. Las adaptaciones culturales y lingüísticas modificaron las dimensiones del instrumento. Los participantes fueron estudiantes y profesionales de enfermería, predominantemente mujeres (92%), con una edad promedio de 36 años. El 65% de los profesionales reportó formación y experiencias relacionadas con la muerte, frente al 9,1% de estudiantes con contacto previo. Las puntuaciones fueron 88 y 84, respectivamente. Conclusiones: La escala FATCOD permite identificar necesidades formativas y fortalecer las competencias en cuidados paliativos.

Palabras clave: actitud; cuidados paliativos; cuidados al final de la vida; conocimiento; escala FATCOD.

## INTRODUCTION

End-of-life care has gained significant relevance in the context of current health systems,(1,2,3,4,5) due to the progressive aging of the population and the increase in chronic non-communicable diseases.(6,7,8,9,10) In this scenario, palliative care is recognized as a growing need that necessitates the intervention of trained professionals, particularly nurses,(11,12,13,14,15) whose work is crucial in supporting the dying patient and their family.(16,17,18,19,20) The quality of care offered at this vital stage depends not only on technical knowledge but also on the professional's attitudes,(21,22,23) communication skills, and ethical sensitivity.(24,25,26,27)

Several studies have pointed out that the attitudes of health care personnel towards death directly influence the care provided.(28,29,30,31,32) These attitudes are determined by factors such as academic training,(33,34,35,36) previous experiences, religious beliefs, sociocultural environment, and previous contact with death.(37,38,39,40,41) Therefore, it is necessary to explore and understand how these variables affect the behavior of professionals in critical end-of-life situations,(42,43,44,45,46) to strengthen their preparation during training.(47,48,49,50)

In response to this need, measurement instruments have been developed, such as the Frommelt Attitude Toward Care of the Dying Scale (FATCOD),(51,52,53,54,55) which has been widely used internationally to evaluate the attitudes of nursing students and professionals toward the care of terminally ill patients.(56,57,58,59,60) This tool enables the identification of areas for improvement in attitudinal competencies,(61,62,63,64,65) contributing to the design of more effective educational strategies.(66,67,68,69,70,71,72,73)

The purpose of this research was to conduct a review of the scientific literature available in institutional and open databases, aiming to identify the attitudes of nursing personnel towards palliative care, as well as the associated sociodemographic factors and the applicability of the FATCOD scale in various contexts. This work seeks to contribute to the strengthening of palliative care training, promoting the humanization of care, dignity in the dying process, and the development of competencies that guarantee comprehensive and empathetic care at the end of life.

What are the attitudes of nursing staff towards end-of-life care, and what factors influence them according to the scientific literature?

## Objective

To analyze, through a review of the scientific literature, the attitudes of nursing staff towards end-of-life care, identifying the factors that condition them, and evaluating the applicability of the FATCOD scale in different contexts.

## METHODS

### Design

A literature review was conducted, which involved consulting and extracting information from scientific articles available on the Universidad Cooperativa de Colombia platform regarding the attitudes of healthcare personnel towards palliative care.

### Population

The present research was conducted using scientific articles from the databases of the Universidad Cooperativa de Colombia and open-access databases, specifically those related to the Frommelt Attitude Toward Care of the Dying Scale (FATCOD).

### Sample

The scientific articles that met the inclusion and exclusion criteria were included in the present study.

### Variables

For this research, variables describing age, sex, working time in nursing, number of patients cared for, years of experience in palliative care, hours spent in palliative care, dimensions such as fear/discomfort, family care, communication, family as caregiver, relationship, active caregiving were taken into account (table 1).

## Keywords

In order to carry out the search and selection process of the keywords for the present study, the following words were obtained from the Health Sciences Descriptors (DeCS) and Medical Subject Headings (MeSH) page (figure 1- Annex).

**Table 1. Variables**

| Name                                   | Definition                                                                                                                                                                                                                                                                                                    | Nature                    | Level of measurement |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|
| Age                                    | Life span from birth                                                                                                                                                                                                                                                                                          | Quantitative - discrete   | Ratio                |
| Sex                                    | Characteristics that define a human being human being                                                                                                                                                                                                                                                         | Qualitative - dichotomous | Nominal              |
| Time working in nursing                | Time in which you have worked as a nurse as a nurse                                                                                                                                                                                                                                                           | Quantitative - discrete   | Ratio                |
| Number of patients seen                | Patients seen during your working life working life                                                                                                                                                                                                                                                           | Quantitative - discrete   | Ratio                |
| Years of experience in palliative care | Time spent in the palliative care field palliative care                                                                                                                                                                                                                                                       | Quantitative - discrete   | Ratio                |
| Hours spent in palliative care         | Number of hours spent providing palliative care                                                                                                                                                                                                                                                               | Quantitative - discrete   | Rationale            |
| Fear/discomfort                        | Feeling that something is going to happen, either real or imagined real or imagined.                                                                                                                                                                                                                          | Quantitative - discrete   | Reason               |
| Family caregiver                       | Those people in the family who are responsible for assisting in the activities of daily living for people who are ill or dependent.                                                                                                                                                                           | Quantitative - discrete   | Rationale            |
| Communication                          | The delivery of information from one person to another, which can be verbal and non-verbal.                                                                                                                                                                                                                   | Quantitative - discrete   | Reason               |
| Family as care                         | The family group is defined as a unit that provides care support during the course of the disease.                                                                                                                                                                                                            | Quantitative - discrete   | Ratio                |
| Relationship                           | They are connections between two or more people, which intervenes in the process of health-illness, where it implies a therapeutic communication between the subject of care, family and nursing staff, it is indispensable in the process as it gives response to the suffering suffered by the sick person. | Quantitative - discrete   | Nominal              |
| Active care                            | Holistic care for people who are ill. holistic assistance to people who are ill.                                                                                                                                                                                                                              | Quantitative - discrete   | Ratio                |

## Combination with Booleans

For the present research, the Boolean connectors AND and OR were used to construct the formulas used for the search (Figure 2 – Annex).

## Sources of information

Institutional databases: the university's databases were consulted, such as the virtual health library, OVID Medicine and Nursing, Proquest Family Health Database, Proquest Healt & Medical Collection, Proquest Nursing & Allied Health Database, Proquest Public Health Database, Health Journals and Books Visibility, Proquest Education Database, Proquest India Database, Proquest Latin America & Iberia Database, Proquest Middle East & Africa Database, Proquest Psychology Database, Proquest Research Library, Proquest Science Database, Proquest Social Science Database, Proquest UK & Ireland Database, Redalyc, Dialnet, Oxford, Proquest Central, Sage Journals, Science Direct, Springer journal, Taylor & Francis, Scopus. Open databases: once the search in the university databases was completed and the necessary saturation of articles was not achieved, a search of open databases, such as Google Scholar, Scielo, and PubMed, was carried out.

## Selection

First, the variables and descriptors previously identified as referents for the search were taken into account as inclusion and exclusion criteria.

## Inclusion criteria

Language: articles were included whose full text was in Spanish, English, and Portuguese.

Time range: articles were included from 1990 to the present, since the application of this scale has been reported since that time.

Type of publication: quantitative articles, such as case-control studies, clinical trials, cohort studies, and cross-sectional studies, were included in the search.

Open Access articles were excluded.

## Inclusion

After applying inclusion and exclusion criteria, a search was made in the databases described above, after which the articles were exported to the bibliographic reference manager "Mendeley" to eliminate possible identical articles among the results, with this process articles were selected that were reviewed in full for their inclusion in this study and subsequent analysis.

## Analysis of the information

Using the previously selected articles, a complete reading of the text was performed, extracting the necessary information that was stored in a database created by the researchers which contained the following items: name of the article, journal in which it was published, author or authors, date of publication, country, field of performance, general objective and specific objectives, study design, population, sample, methodology, instruments used, to describe the attitudes and knowledge of nurses in critical services.

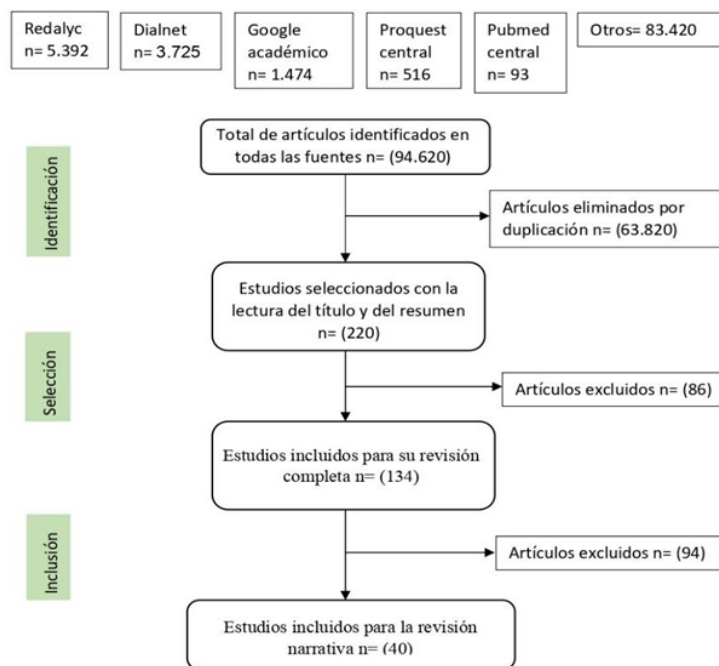
## Ethical Aspects

According to regulation 008430 of 1993, article 11, this research is classified as "no risk" research because "no type of intervention will be carried out, it will be a review of the literature" (Ministry of Health, 1993).

## RESULTS

For this narrative review the search for articles was carried out using 26 combinations of key words to give search formulas described above, the articles investigated on the subject matter in this narrative review were found distributed in each database as follows: Redalyc with 0,77 % (5392), Dialnet with 6 % (43), Google academic with 0,20 % (1474), Proquest Central 73 % (516), Pubmed Central 13 % (93), other databases 11 % (83 420), yielding a total of 703 011 articles (100 %), of which were included and excluded according to the criteria set out in the methodology of this literature review, resulting in a total of 40 articles corresponding to 100 % of which finally for the databases were found with: Redalyc with 12,5 % (5), Dialnet with 7,5 % (3), Google academic 22,5 % (9), Proquest Central 35 % (14), Pubmed Central 15 % (6), other databases.

Of the 40 articles reviewed, the highest prevalence was found between 2019 and 2022, with 10 % (4) corresponding to 2019, 17,5 % (7) corresponding to 2020, 17,5 % (7) to 2021, and 12,5 % (5) to 2022. (7) 2021 and 12,5 % (5) for the year (2022). According to the countries with the highest publication of articles, the top three were: Turkey (10 %, 4), China (10 %, 4), followed by Italy (7,5 %, 3) and Spain. 7,5 % (3), Sweden 5 % (2), South Korea 5 % (2), United States 5 % (2), Japan 5 % (2), Australia 5 % (2); and ending with those countries with the lowest number of publications, among them Iran, Greece, Egypt, Switzerland, Nigeria, Vietnam, Mongolia, Indonesia, Poland, Chile, United Kingdom, Israel, Africa, India with 55 % (1). On the other hand, 100 % (40) of the articles reviewed in the following table are the most outstanding findings.

**Figure 3. Flowchart of data databases 7,5 % (3), as shown in the flowchart**

## Description of findings

According to the literature review, this scale has been applied to professional nurses and nursing students; for students, the results were as follows: the average age was 33 years, and the sex of the participants was predominantly female, with 83. As for religion, 71 % of them were Catholics, 57 % of them had had training in palliative care, and their attitudes were favorable, with a score of 103 on the scale in the care of the patient and family in a palliative situation, see table 2.

**Table 2. Results of sociodemographic variables and FATCOD scale in students**

| Findings                                                                                                                            | Reference                              |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Students' ages ranged from 17 to 49 years old.                                                                                      | (2,3,4,5,6,7,8,9,10,11,12,13,14,15)    |
| In terms of gender, females predominate in a range between 73,2 % and 92,9 %.                                                       | (2,3,4,5,6,7,8,9,10,11,12,16,13,14,15) |
| Only four articles asked about religion and in three of them the Catholic religion predominates with a range between 61 % and 81 %. | (2,5,6,14)                             |
| Only three articles asked whether they received pre-death education with a range between 39,46 % and 74 %.                          | (2,6,9)                                |
| A FATCOD scale score was found to be between 74,69 and 132 points.                                                                  | (2,3,4,5,6,7,8,9,10,11,12,13,14,15,16) |

As for the professionals, it was found that the average age of 41,5, 77 % of the interviewees were female, 15 % of the reviewed articles ask about religion and 5 % of the articles mentioned professing Buddhism with and Jewish, the remaining 95 % only mentioned professing a religion, but did not specify which one, 20 % of the articles in the narrative review questioned the population studied on marital status, 65 % being married, 65 % of the professionals selected for the studies had experience in the area of palliative care for them the scale was favorable with a mean of 88, this being attributed to administrative and legal functions and work overload.

**Table 3. Results of sociodemographic variables and FATCOD scale in professionals**

| Findings                                                                                                                                                                                                              | References                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Within the review it was found that ages ranged from 16 to 67 years.                                                                                                                                                  | (17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37) |
| In terms of gender, females predominate with a range of 56,3 % and 98,6 %.                                                                                                                                            | (17,19,20,21,22,23,24,25,26,27,28,29,30,31,33,34,35,36)          |
| Only six articles asked about religion and in 2 articles it mentions that Buddhism was professed with 56,9 % and Jewish with 89 % (Braun et al., 2010).                                                               | (21,24,26,29,32)                                                 |
| The remaining only mentioned that they professed a religion, but did not specify which one religion, but did not specify which one.                                                                                   |                                                                  |
| In 8 items the marital status was asked, where 7 items responded that they were married, ranging from 51,8 % to 78,7 %.                                                                                               | (19,21,25,26,29,31,32,37)                                        |
| It was found that 10 articles questioned work experience, of which 6 articles were nursing graduates with a range of 45,4 % and 85,4 %; in 4 articles it mentions that they they were pursuing a postgraduate degree. | (24,25,29,31,32,33,35,36)                                        |
| A score was found to be between 51,173 and 125,7 points.                                                                                                                                                              | (17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37) |

**Table 4. Results of sociodemographic variables and FATCOD scale in professionals and students**

| Findings                                                                                                                                            | References    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| The ages of the students and professionals ranged from 23 to 49 years old.                                                                          | (38,39,40,41) |
| In terms of sex, females predominate in a range of 87 % to 98 %.                                                                                    | (38,39,40,41) |
| Only one article asked the practice of any religion 95,5 % of the nurses practice a religion and 87,5 % of the students do not practice a religion. | (38)          |
| Only one article asked the degree of study 53,9 % of the nursing students were pursuing a graduate degree.                                          | (38)          |
| Respondents had from 1 to 16 years of work experience.                                                                                              | (38,40,41)    |
| Only in one article if they had education prior to death between 9,1 % and 60,4 %.                                                                  | (38)          |
| It was found a score between 29,96 and 139,20 points.                                                                                               | (38,39,40,41) |

In the studies that included students and professionals, the mean age of the population studied was 36 years. The sample consisted of 92 % women. Nurses practiced some form of religion, with 95,5 % of the nurses identifying as practicing a religion. In contrast, 87,5 % of the students did not report or practice a religion. The respondents have 1 to 6 years of experience. If they have had contact with death 9,1 % of the students, and 60,4 % of the professionals when comparing the score of these two groups it is evident that it found a score of 84 which indicates that the attitudes of this group are in a medium range and can be an alert for the academy to strengthen competencies in palliative care necessary for the care of the patient and his family.

## CONCLUSIONS

In this narrative review it was documented that the FATCOD scale has been used in multiple countries for this purpose, highlighting that attitudes modify behavioral tendencies according to their thinking and react in a context protecting their values and beliefs, which is translated into attitudes that the professional has to handle a critical situation as it is in different contexts according to their professional profile.

For the nursing discipline, the specific competencies that professionals need in their daily practice are essential. According to the narrative review carried out, it was concluded that the services where the FATCOD scale has been most applied are the palliative care and intensive care unit areas.

Based on geographical location, the continent where the FATCOD scale has been applied and used most is Asia, followed by Europe, making it essential to apply it in the rest of the world.

## RECOMMENDATIONS

For future research, the FATCOD scale measurement should be considered for the training needs of nursing students and professionals regarding end-of-life care competencies, to identify potential training gaps.

Likewise, it is recommended that future research using the FATCOD scale considers conducting analyses associated with the usefulness of the educational content provided on end-of-life care during the student stage, with the aim of the consolidation of this knowledge from the academy.

It is necessary to validate the FATCOD scale in Colombia to develop contextualized research evaluating attitudes towards end-of-life care. This will provide reliable theoretical support for designing educational strategies that promote curriculum improvement for both nurse-in-training and professional nurses.

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ANNEX

Figure 1. DeCS and MeSH Descriptors

|                                                                                                                                                            |                          |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                            |                          |                                                                                                                                                                                                                  | eficazmente con las tareas. Los componentes de la inteligencia emocional son la empatía, automotivación, autoconocimiento, autorregulación, y las habilidades sociales. La inteligencia emocional es una medición de la capacidad para socializar o relacionarse con los demás.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Estudiantes de Enfermería</b>                                                                                                                           | <b>Students, Nursing</b> | <b>Estudantes de Enfermagem</b>                                                                                                                                                                                  | Individuos matriculados en una escuela de enfermería o en un programa formal de educación que culmina con el otorgamiento de un grado en enfermería.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cuidados Paliativos</b><br><i>Sinónimos:</i><br>Apoyo en Cuidados Paliativos<br>Asistencia Paliativa de Apoyo                                           | <b>Palliative Care</b>   | <b>Cuidados Paliativos</b>                                                                                                                                                                                       | Tratamiento para aliviar los síntomas sin curar la enfermedad. (Stedman, 25a ed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Atención Paliativa<br>Tratamiento Paliativo                                                                                                                |                          |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cuidados Paliativos al Final de la Vida</b><br><i>Sinónimos:</i><br>Cuidado por Desamparo<br>Programas de Cuidados Paliativos<br>Programas de Hospicios | <b>Hospice Care</b>      | <b>Cuidados Paliativos na Terminalidade da Vida</b><br><i>Sinónimos:</i><br>Cuidado Paliativo a Doentes Terminais<br>Cuidados a Doentes Terminais<br>Cuidados de Conforto<br>Programas de Cuidados Intermitentes | Cuidados de salud especializados, de apoyo, que se le prestan a una persona que está agonizando. Con frecuencia se aborda de una manera integral, brindando a los pacientes y sus familiares consejos legales, financieros, emocionales o espirituales, además de atender a las necesidades físicas inmediatas de los pacientes. Estos cuidados pueden ser brindados en el domicilio, en el hospital, en instalaciones especializadas (HOSPICIOS), o en áreas designadas especialmente de instalaciones de cuidados prolongados. El concepto incluye también atención a los familiares en relación el sentimiento de pérdida.<br>(Traducción libre del original: |

|                                                              |                                            |                                        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              |                                            |                                        | Programas de Cuidados Paliativos                                  | Dictionary of Health Services Management, 2d ed)                                                                                                                                                                                                                                                                                                                                                              |
|                                                              |                                            |                                        | <b>Enfermagem de Cuidados Paliativos na Terminalidade da Vida</b> |                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Enfermería de Cuidados Paliativos al Final de la Vida</b> | <b>Hospice and Palliative Care Nursing</b> | <b>Sinónimos:</b>                      | Enfermagem de Cuidados Paliativos                                 | Especialidad de la enfermería que se relaciona con el cuidado de los pacientes que enfrentan enfermedades graves o potencialmente mortales. El objetivo de la enfermería paliativa es prevenir y aliviar el sufrimiento, y para apoyar lo mejor posible la calidad de vida de los pacientes y sus familias. La enfermería de hospicio es el cuidado paliativo para las personas en su etapa final de la vida. |
| <b>Enfermería de Cuidados Críticos</b>                       | <b>Critical Care Nursing</b>               | <b>Enfermagem de Cuidados Críticos</b> |                                                                   | Una de las especialidades de enfermería que se ocupa específicamente de la atención de pacientes que están gravemente enfermos.                                                                                                                                                                                                                                                                               |
| <b>Autonomía Profesional</b>                                 | <b>Professional Autonomy</b>               | <b>Autonomia Profissional</b>          |                                                                   | La calidad o condición de ser independiente y autodirigido, especialmente en la toma de decisiones, que permite a los profesionales ejercer su criterio según lo que entiendan adecuado en el desempeño de sus trabajos.                                                                                                                                                                                      |
| <b>Educación en Enfermería</b>                               | <b>Education, Nursing</b>                  | <b>Educação em Enfermagem</b>          |                                                                   | Se usa para cosas en general que se relacionan con la educación en enfermería.                                                                                                                                                                                                                                                                                                                                |
| <b>Miedo</b>                                                 |                                            |                                        |                                                                   | Una respuesta afectiva a un peligro externo real, que desaparece con el fin de la situación amenazadora.                                                                                                                                                                                                                                                                                                      |
| <b>Sinónimo:</b>                                             | <b>Fear</b>                                | <b>Medo</b>                            |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                               |
| Temor                                                        |                                            |                                        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Calidad de Vida</b>                                       |                                            |                                        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Sinónimos:</b>                                            |                                            |                                        |                                                                   | Concepto genérico que refleja preocupación por la modificar y mejorar las condiciones de vida, por ejemplo, físico, político, moral, entorno social, así como la salud y la enfermedad.                                                                                                                                                                                                                       |
| Calidad de Vida en Relación con la Salud                     | <b>Quality of Life</b>                     | <b>Qualidade de Vida</b>               |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                               |
| Calidad de Vida                                              |                                            |                                        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                               |

|                                 |                       |                                  |                                                                                                                                                                       |
|---------------------------------|-----------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relacionada con la Salud        |                       |                                  |                                                                                                                                                                       |
| CVRS                            |                       |                                  |                                                                                                                                                                       |
| HRQOL                           |                       |                                  |                                                                                                                                                                       |
| <b>Muerte</b>                   |                       |                                  |                                                                                                                                                                       |
| <i>Sinónimos:</i>               |                       |                                  |                                                                                                                                                                       |
| Determinación de la Muerte      |                       |                                  |                                                                                                                                                                       |
| Experiencia Cercana a la Muerte | <b>Death</b>          | <b>Morte</b>                     | Cese irreversible de todas las funciones corporales, se manifiesta por ausencia de respiración espontánea y pérdida total de las funciones cardiovascular y cerebral. |
| Fallecimiento                   |                       |                                  |                                                                                                                                                                       |
| Fin de la Vida                  |                       |                                  |                                                                                                                                                                       |
| Muerte Cardíaca                 |                       |                                  |                                                                                                                                                                       |
| Óbito                           |                       |                                  |                                                                                                                                                                       |
| <b>Dolor</b>                    |                       |                                  |                                                                                                                                                                       |
| <i>Sinónimos:</i>               |                       |                                  |                                                                                                                                                                       |
| Sufrimiento Físico              | <b>Pain</b>           | <b>Dor</b>                       | Sensación desagradable inducida por estímulos nocivos que son detectados por las TERMINACIONES NERVIOSAS de los NOCICEPTORES.                                         |
| <b>Enfermo Terminal</b>         | <b>Terminally Ill</b> | <b>Doente Terminal</b>           | Personas con una enfermedad incurable o irreversible en la etapa                                                                                                      |
|                                 |                       |                                  |                                                                                                                                                                       |
|                                 |                       |                                  | final que lo conducirá a la muerte en poco tiempo.                                                                                                                    |
| <b>Cuidado terminal</b>         |                       |                                  |                                                                                                                                                                       |
| <i>Sinónimos:</i>               |                       |                                  |                                                                                                                                                                       |
| Cuidado en el final de la vida  | <b>Terminal care</b>  | <b>Assistência Terminal</b>      | Cuidados médicos y de enfermería dados a pacientes en la fase terminal de una enfermedad.                                                                             |
| <b>Enfermeros y Enfermeras</b>  | <b>Nurses</b>         | <b>Enfermeiras e Enfermeiros</b> |                                                                                                                                                                       |
| <i>Sinónimos:</i>               |                       |                                  |                                                                                                                                                                       |
| Enfermera Registrada            | Nurse                 | <i>Sinónimos:</i>                | Profesionales calificados graduados de una escuela acreditada de enfermería y por el paso de un examen nacional de concesión de                                       |
| Enfermera y Enfermero           | Nurse, Registered     | Enfermeira e                     | licencias para la práctica de enfermería. Ellos proporcionan servicios a los pacientes en la recuperación o el mantenimiento de su salud física o mental.             |
| Enfermeras Registradas          | Nurses, Registered    | Enfermeiro                       |                                                                                                                                                                       |
| Enfermeras Registradas          | Nursing               | Enfermeira                       |                                                                                                                                                                       |
| Enfermero Registrado            | Personnel             | Enfermeiras                      |                                                                                                                                                                       |
| Enfermero y Enfermera           | Personnel, Nursing    | Enfermeiras                      |                                                                                                                                                                       |
| Enfermeros                      | Nursing               | Registradas                      |                                                                                                                                                                       |
|                                 | Registered            | Enfermeiro e                     |                                                                                                                                                                       |
|                                 | Nurse                 | Enfermeira                       |                                                                                                                                                                       |

|              |            |               |
|--------------|------------|---------------|
| Registrados  | Registered | Enfermeiro    |
| Enfermeros y | Nurses     | Registrado    |
| Enfermeras   |            | Enfermeiros e |
|              |            | Enfermeiras   |
|              |            | Enfermeiros   |
|              |            | Registrados   |

| Español                       | Inglés                       | Portugués                   | Definición                                                                                                                                                            |
|-------------------------------|------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actitud                       |                              |                             | Una predisposición adquirida y duradera a comportarse de modo consistente en relación con una determinada clase de objetos, o un estado mental y/o neural persistente |
| Sinónimos:                    | Attitude                     | Atitude                     | de preparación para reaccionar ante una determinada clase de objetos, no como ellos realmente son sino como son concebidos.                                           |
| Opiniones                     |                              |                             |                                                                                                                                                                       |
| Actitud del Personal de Salud | Attitude of Health Personnel | Atitude do Pessoal de Saúde | Actitudes del personal de salud hacia sus pacientes, otros profesionales, el sistema de atención médica, etc.                                                         |
| Inteligencia Emocional        | Emotional Intelligence       | Inteligência Emocional      | La capacidad de entender y manejar las emociones y utilizar el conocimiento emocional para mejorar el pensamiento y manejarse                                         |

Figure 2. Combination with Booleans

| Fórmulas español                                                      | Fórmulas inglés                                                                                 | Fórmulas portugués                                                                                                     |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Actitud OR Opiniones AND                                              | Attitudes AND Attitudes to                                                                      | Medo OR temer AND                                                                                                      |
| Actitud del Personal de Salud AND cuidado paliativo AND escala FATCOD | Death AND Attitude of Health Personnel AND Hospice and Palliative Care Nursing AND FATCOD scale | Cuidados Paliativos na Terminalidade da Vida AND atitude frente a morte AND Estudantes de Enfermagem AND escala FATCOD |

|                                                                                                                                                  |                                                                                                       |                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Cuidados Paliativos OR Apoyo en Cuidados Paliativos OR Asistencia Paliativa de Apoyo AND escala FATCOD                                           | Palliative Care AND Hospice Care AND Hospice and Palliative Care Nursing AND FATCOD scale             | Morte OR norte AND Cuidados Paliativos AND Enfermagem de Cuidados Críticos AND escala FATCOD        |
| Enfermo Terminal AND Enfermería de Cuidados Paliativos al Final de la Vida AND escala FATCOD                                                     | Fear AND End-Of-Life OR Death AND Students, Nursing AND FATCOD scale                                  | Dor OR Sofrimento AND Cuidados Paliativos AND Educação em Enfermagem AND escala FATCOD              |
| Dolor OR Sufrimiento Físico AND escala FATCOD                                                                                                    | Critical Care Nursing AND Professional Autonomy AND Terminally Ill AND FATCOD scale                   | Cuidados Paliativos OR apoio em cuidados paliativos AND Educação em Enfermagem AND escala FATCOD    |
| Programas de Cuidados Paliativos AND Actitud del Personal de Salud AND Muerte AND escala FATCOD                                                  | Attitude to Death OR Death Attitudes AND Critical Care Nursing AND Hospice Care AND FATCOD scale      | Atitude OR opiniões AND Atitude Frente a Morte AND Estudantes de Enfermagem AND escala FATCOD       |
| Atención Paliativa OR Tratamiento Paliativo AND Actitud Frente a la Muerte AND escala FATCOD                                                     | Quality of Life OR Health-Related OR Life Quality AND Terminally Ill AND Palliative Care AND          | Atitude Frente a Morte AND Estudantes de Enfermagem AND                                             |
|                                                                                                                                                  | Education Nursing AND FATCOD scale                                                                    | Autonomia Profissional AND escala FATCOD                                                            |
| Cuidados Paliativos al Final de la Vida OR Cuidado por Desamparo OR Programas de Cuidados Paliativos OR Programas de Hospicios AND escala FATCOD | Near-Death Experience AND Students Nursing AND Critical Care Nursing AND FATCOD scale                 | Qualidade de Vida em relação à saúde AND medo AND cuidados paliativos AND escala FATCOD             |
| Enfermería de Cuidados Críticos AND Actitud Frente a la Muerte AND escala FATCOD                                                                 | Quality of Life AND Pain AND Palliative Care AND Attitude of Health Personnel AND FATCOD scale        | Inteligência Emocional AND Atitude Frente a Morte AND Atitude do Pessoal de Saúde AND escala FATCOD |
| Calidad de Vida en Relación con la Salud AND Actitud del Personal de Salud AND escala FATCOD                                                     | Quality of Life AND Terminally Ill AND FATCOD scale                                                   | Morte AND Inteligência Emocional OR assistência paliativa AND escala FATCOD                         |
| Muerte OR Determinación de la Muerte OR Experiencia Cercana a la Muerte OR Fallecimiento AND escala FATCOD                                       | Emotional intelligence AND attitude to death AND hospice and palliative care nursing AND FATCOD scale | Estudantes de Enfermagem AND Atitude Frente a Morte AND Doente Terminal AND escala FATCOD           |

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| Dolor OR Sufrimiento AND<br>Actitud del Personal de Salud<br>AND escala FATCOD                                                                           | Palliative care OR palliative<br>treatment AND terminally<br>ill AND critical care nursing<br>AND FATCOD scale | Atitude Frente a Morte<br>AND Estudantes de<br>Enfermagem AND<br>Autonomia Profissional<br>AND escala FATCOD                                              |
| Enfermo Terminal and<br>Determinación de la Muerte and<br>Miedo and Actitud Frente a la<br>Muerte AND escala FATCOD                                      | Professional autonomy<br>AND attitude of health<br>Personnel AND critical care<br>nursing AND FATCOD<br>scale  | Doente Terminal AND<br>Enfermagem de Cuidados<br>Críticos AND Cuidados<br>Paliativos na Terminalidade<br>da Vida AND escala<br>FATCOD                     |
| Estudiantes de Enfermería AND<br>Actitud Frente a la Muerte AND<br>Asistencia Paliativa de Apoyo<br>AND escala FATCOD                                    | Terminally ill AND aches<br>AND quality of life AND<br>palliative supportive Care<br>AND FATCOD scale          | Dolor OR fornecer AND<br>Atitude do Pessoal de Saúde<br>AND escala FATCOD                                                                                 |
| Actitud Frente a la Muerte AND<br>Estudiantes de Enfermería AND<br>Autonomía Profesional AND<br>escala FATCOD                                            | Attitude of health personnel<br>AND professional autonomy<br>AND education, nursing<br>AND FATCOD scale        | Atitude Frente a Morte<br>AND Atitude do Pessoal de<br>Saúde AND enfermeiros e<br>enfermeiros AND escala<br>FATCOD                                        |
| Calidad de Vida en Relación<br>con la Salud AND Temor and<br>Cuidados Paliativos AND escala<br>FATCOD                                                    | Attitudes AND terminally ill<br>AND attitude to death AND<br>FATCOD scale                                      | enfermeiros e enfermeiros<br>AND Atitude do Pessoal de<br>Saúde AND Enfermagem de<br>Cuidados Paliativos na<br>Terminalidade da Vida<br>AND escala FATCOD |
| Enfermería de Cuidados<br>Paliativos al Final de la Vida<br>AND Actitud Frente a la Muerte<br>AND escala FATCOD                                          | Treatments, palliative AND<br>attitude AND hospice and<br>palliative care nursing AND<br>FATCOD scale          | Enfermeiros e enfermeiros<br>AND Cuidados Paliativos na<br>Terminalidade da Vida<br>AND escala FATCOD                                                     |
| Enfermería de Cuidados<br>Paliativos al Final de la Vida<br>AND Apoyo en Cuidados<br>Paliativos OR Asistencia<br>Paliativa de Apoyo AND escala<br>FATCOD | Supportive care palliative<br>AND bereavement care<br>AND terminally ill AND<br>FATCOD scale                   | Assistência Terminal AND<br>Enfermeiros e enfermeiros<br>AND Qualidade de Vida<br>AND escala FATCOD                                                       |
|                                                                                                                                                          | Terminally ill AND burning<br>pain AND fear AND death<br>AND FATCOD scale                                      | Educação em Enfermagem<br>AND Enfermeiros e<br>enfermeiros AND<br>Enfermagem de Cuidados                                                                  |

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|                                                                                                            | Criticos AND escala<br>FATCOD                                                                                                                           |
| Nurse AND attitude of<br>health personnel AND<br>palliative treatment AND<br>FATCOD scale                  | Enfermagem de Cuidados<br>Criticos AND Qualidade de<br>Vida AND Enfermagem de<br>Cuidados Criticos AND<br>escala FATCOD                                 |
| Attitudes AND personnel<br>nursing AND death OR end<br>Of life AND FATCOD scale                            | Doente Terminal AND<br>Cuidados Paliativos na<br>Terminalidade da Vida<br>AND escala FATCOD                                                             |
| Registered nurse OR nursing<br>personnel AND attitude to<br>death AND terminally Ill<br>AND FATCOD scale   | Atitude Frente a Morte<br>AND Atitude do Pessoal de<br>Saúde AND escala<br>FATCOD                                                                       |
| Critical care nursing AND<br>terminally Ill AND fear<br>AND cardiac death AND<br>FATCOD scale              | Enfermeiros e Enfermeiros<br>AND Educação em<br>Enfermagem AND<br>Enfermagem de Cuidados<br>Paliativos na Terminalidade<br>da Vida AND escala<br>FATCOD |
| Determination of death OR<br>near-death experience AND<br>terminally Ill AND<br>FATCOD scale               | Cuidados Paliativos AND<br>Doente Terminal AND<br>Qualidade de Vida AND<br>escala FATCOD                                                                |
| Hospice and palliative care<br>nursing AND critical care<br>nursing AND terminally Ill<br>AND FATCOD scale | Cuidados Paliativos na<br>Terminalidade da Vida<br>OR Cuidados de Conforto<br>AND Enfermagem de<br>Cuidados Criticos AND<br>escala FATCOD               |
| Fear AND terminally Ill<br>AND near-death experience<br>AND FATCOD scale                                   | Atitude Frente a Morte<br>AND Autonomia<br>Profissional AND Educação<br>em Enfermagem AND<br>escala FATCOD                                              |