Specialized nursing terminology for the care of people with metabolic syndrome

Terminología especializada de enfermería para el cuidado a la persona con síndrome metabólica

ABSTRACT

Objective: To build a specialized nursing terminology for the care of people with metabolic syndrome in Primary Health Care.

Method: Methodological study, based on the identification of nursing concepts for the care of people with the syndrome, validation of concepts with nurses experts, and cross-mapping with the early concepts of ICNP® 2017.

Results: Of the concepts extracted, 489 involved psychobiological, psychosocial, and psycho-spiritual needs. Of these, 441 concepts were validated and subjected to mapping and analysis of similarity and comprehensiveness, which allowed the elimination of concepts considered synonyms, culminating in 389 concepts related to the needs of people with metabolic syndrome, in which 43.7% of validated concepts were not contained in the 2017 version of ICNP®. Of the constant and non-constant concepts, 42.3% were classified in the Action axis, followed by the Focus axis (34.9%).

Conclusion and implications for practice: With the achievement of the objective, there is the advance in knowledge about the use of ICNP®, with a proposal to standardize professional language for the care of people with metabolic syndrome, with the potential to increase Primary Health Care information systems with indicators of nursing care for people with aggregation of cardiovascular risk factors.

Keywords: Nursing; Terminology; Metabolic Syndrome; Primary Health Care.

RESUMO

Objetivo: Construir uma terminologia especializada de enfermagem para o cuidado de pessoas com síndrome metabólica na Atendimento Primário à Saúde. Método: Estudo metodológico, realizado a partir da identificação dos conceitos de enfermagem para o cuidado à pessoa com a síndrome, validação dos conceitos com enfermeiros especialistas e mapeamento cruzado com os conceitos primitivos da CIPE® 2017. Resultados: Dos conceitos extraídos, 489 envolveram as necessidades psicobiológicas, psicosociais e psicoespirituais. Destes, 441 conceitos foram validados e submetidos ao mapeamento e à análise de similaridade e abrangência, a qual possibilitou eliminação de conceitos considerados sinónimos, culminando em 389 conceitos relacionados às necessidades de pessoas com síndrome metabólica, em que 43.7% dos conceitos validados não constavam na versão 2017 da CIPE®. Do total de conceitos constantes e não constantes 42.3% foram classificados no eixo Ação, seguido do eixo Foco (34.9%).

Conclusão e implicações para a prática: Com o alcance do objetivo, têm-se o avanço no conhecimento sobre a utilização da CIPE® com uma proposta de uniformização da linguagem profissional para o cuidado de pessoas com síndrome metabólica, com potencial para incrementar sistemas de informação da Atendimento Primário à Saúde com indicadores do cuidado de enfermagem para pessoas com agregação de fatores de risco cardiovascular.

Palavras-chave: Enfermagem; Terminologia; Síndrome Metabólica; Atendimento Primário à Saúde.
INTRODUCTION

The metabolic syndrome involves the aggregation of significant cardiovascular risk markers, with identification of at least three criteria such as increased abdominal circumference, elevated fasting blood glucose, blood pressure, triglycerides, and/or reduced high density cholesterol.¹ There is still insufficient data on its prevalence, with variations according to the region, the population (sex, age, race and ethnicity), the environment (urban or rural) and the parameters and criteria adopted for its identification.

In Brazil, about 30% of the population aged between 19 and 64 years have metabolic syndrome,² demanding care for disease prevention and health promotion, with the potential to generate valid indicators, derived from the records made by health professionals, in particular, the nurse working in Primary Health Care. This constantly accompanies several groups of individuals with the syndrome in health programs in Primary Care, collaborating with the rise of quality of care and knowledge about concepts/terms related to nursing classification systems.

Many concepts/terms are widely used and new ones are identified, but these may not be valid for the clinic. Technical-scientific concepts are expressed, but it is necessary to structure them according to their usefulness and scientific characterization in the context of Nursing, enabling the standardization of professional language. However, there is a limitation involving the incipient record in the medical records and the divergence as to valid concepts/terms, which hinders advances in clinical practice, but which can be met, a priori, by using the literature and/or official documents of the area for extracting indicators.³

In this perspective, Nursing is in a process of transformation and development, which strengthens the recognition of this as a science,⁴ while increasing practice in scientific evidence and consolidating itself through specific terminology that establishes the definition and description of phenomena and actions. However, the lack of uniformity in this vocabulary has hindered progress in knowledge,⁵ which justifies the relevance of the development of this study.

The use of standardized language in Nursing is a primordial object of the International Council of Nurses (ICN) and it has been identified as one of the means for the profession to achieve the conformation of science, with systematic care and directed to health priorities inserted in the spectrum of action in the most diverse scenarios and using classification systems in nursing. The International Classification for Nursing Practice (ICNP⁶), started in 1989 by the ICN and inserted, since 2008, in the Family of International Classifications of the World Health Organization, as Related Classification.⁷ The 2019 version of ICNP⁶ presents 4,475 concepts, of which 2,035 are pre-coordinated concepts (related to diagnoses/results and nursing interventions) and 2,440 primitive concepts.

ICNP⁶ Research and Development Center of Brazil, located in the city of João Pessoa - Paraíba, has been contributing to the development of the Classification through dissertations and theses.⁸ When using ICNP⁶, nurses around the world are involved in the identification, validation and cross-mapping of concepts/terms in the records, official publications/care guidelines and in the Classification itself, collaborating to improve terminology, with a focus on specific populations/priorities, in varying levels of health care.

Specialized nursing terminologies were evidenced in the literature for various care groups with limits in Primary Health Care as community elderly,⁹ elderly women with HIV/AIDS¹⁰ and people with ostomies,¹¹ with scarcity of studies related to the person with metabolic syndrome in the referred level of health care.

Thus, the selection of this syndrome is justified as a priority chosen by this study, inserted in Primary Health Care, locustor preventing cardiovascular diseases and health promotion, guided by a specialized terminology to be implemented in the health information systems in the future and with a possible positive impact on the measurement of nursing care for people with aggregation of cardiovascular risk factors.

Considering the above, it was asked: of the concepts/terms identified in publications involving the metabolic syndrome, which are valid to constitute specialized terminology that leads to the practice of care and the effective registration of nursing in Primary Health Care? Therefore, the objective was to build a specialized nursing terminology for the care of people with metabolic syndrome in Primary Health Care.

METHOD

Methodological study, carried out between the years 2016 and 2018, by a group of researchers from Postgraduate Nursing Programs at two Universities in Northeastern Brazil and the ICNP⁶ Research and Development Center of Brazil. To build the specialized terminology of this study, the steps were followed based on the Brazilian recommendations involving studies with ICNP⁶: ¹ 1) identification of nursing concepts/terms for the care of people with metabolic syndrome; ²) validation by a group of specialist nurses as to the relevance of the identified concepts/terms; and ³) cross-mapping of concepts/terms validated with ICNP⁶.

The first stage involved the identification of official publications/care guidelines with clinical and cultural relevance for nursing practice, aligned with the Theoretical Framework of basic human needs of people with the syndrome - health priority - in the three levels of psychic life: Psychobiological, psychosocial and psycho-spiritual. This stage occurred in two moments, due to the fact that, when analyzing the concepts of the publications/guidelines selected in the first moment, it was evidenced that they mostly contemplated the psychobiological and psychosocial needs, demanding a new search for publications covering the psycho-spiritual demands of people with metabolic syndrome.

The literature search process, in both moments, occurred through a narrative review of official publications/national guidelines and scientific articles, simultaneously by two master's students, with the help of a third researcher, doctor in nursing and with experience in cardiovascular care with people with metabolic syndrome, in order to identify publications involving relevant state of the art data to contribute to the selection of concepts/terms.
relevant to the clinical practice of nurses in the three levels of psychic life, once the scarcity of related terms is evidenced, mainly, to the psycho-spiritual sphere.

In the first search, official publications related to metabolic syndrome and cardiovascular prevention were identified. In the second moment, the Health Sciences Descriptors were used: Nursing, Spirituality and Religion, crossed, simultaneously, from the Boolean operator “AND” and applied in the search platform of the Virtual Health Library. The inclusion criteria for selection were used: Publications and articles in Portuguese, due to the concept/term extraction tool recognizing only concepts in that language; official article or publication available, free and original, given the fact that the reviews are very extensive and repetitive and highlight ideas present in original studies; published from 2005 to 2016. At the end, four official publications/guidelines and eight scientific articles, totaling 12 files to extract the relevant concepts/terms for nursing care directed to people with metabolic syndrome.

The concepts/terms were extracted by PORONTO, a computational tool for semiautomatic construction of ontologies in the health field from texts in Portuguese which provides the respective appearance frequencies, exporting them to an Excel file. The use of this tool facilitates the process of normalization and standardization with analysis and exclusion of synonyms, in which concepts/terms are synonymous with different words and expressions with similar meaning, according to Portuguese-language dictionaries. Verbs and grammatical genders were also adapted, excluding concepts/terms belonging to other areas, such as diagnoses and medical procedures or other health professions.

After this process, operational definitions were constructed for the standardized concepts/terms, using ICNP, scientific articles and dictionaries in Portuguese and technical health terms, facilitating subsequent validation by specialists. The construction of the operational definitions took place according to the steps recommended by the literature: 1) development of a preliminary definition; 2) literature review 3) developing identification of specific characteristics; 4) mapping the meaning of the concept; and 5) statement of the operational definition.

In the second stage, the consensus validation technique, which proposes analysis of the concepts/terms and respective definitions by a particular group of clinical nurses, minimum of three and maximum of five participants, with the purpose of consolidating a consensual opinion (100%) of experts on the pertinence and relevance of each concept/term. The disagreement of one or more specialists led to the non-validation of concepts/terms extracted and the consequent exclusion of terminology. The inclusion criteria for the specialists were: Nurse, author, co-author or advisor of studies involving metabolic syndrome, and with at least four years of clinical practice with people with health priority. Three specialists were selected through the Platform Lattes considering the geographical proximity for the face-to-face meetings.

The validation took place in a municipality of Cariri Cearense, in which the same specialists participated in the two face-to-face meetings, with the help of two guiding scripts, one involving the validation of the concepts related to the psychosocial and psychospiritual dimensions, and the other the concepts of the psychosocial dimension, both analyzed by the same specialists and conducted by two researchers. The list of valid concepts for nursing care in relation to the elected health priority was consolidated, considering all dimensions of basic human needs.

The third stage included the mapping of concepts previously validated with the primitive concepts of the Seven Axis Model of ICNP, comparing them and deciding on semantic equivalence and exclusion of synonyms, identifying similarity and enabling adaptation to standardized terminology. This step was based on the Norm ISO 12300:2016 that displays the mapping process and its fundamental purposes to provide support for creating clinical terminologies or subsets of specific use, supporting the methodological proposal with the proposal for this stage of the study.

At the time, after the validation of the concepts of this study, the 2015 version of ICNP, which at that time was in trial, was validated, and the 2017 version was launched. The standard highlights among its principles that the mappings must have continuous improvement processes, as well as be maintained and regularly updated throughout their life cycle. It was considered necessary to update with this new version and, therefore, to carry out a new mapping, which did not show divergences between the concepts/terms contained between the two referred versions of ICNP that makes up the specialized terminology.

For this purpose, two spreadsheets were constructed in Excel, with the identification and validated concepts, and the other with the primitive concepts of ICNP 2017, being crossed with each other using the program Access for Windows, to identify the primitive concepts that are constant and not constant in the 2017 version of the Classification. In this mapping process, non-constant concepts were analyzed for similarity and scope in relation to the primitive concepts contained in ICNP 2017, enabling the framing of terms in the Seven Axes of the Classification Model. In the end, the primitive concepts were validated and mapped from specialized nursing terminology related to the care of people with metabolic syndrome, constant and not constant in the ICNP 2017.

The results were analyzed descriptively regarding the absolute and relative frequency of the concepts, occurrence and constancy or not in the Seven Axes of ICNP, organized in tables and identified with the respective codes extracted from the ICNP to facilitate the understanding and checking of data, these discussed through national and international literature related to the theme.

This study was approved on 01/27/2016 by the Research Ethics Committee of Universidade Regional do Cariri, according to opinion No. 1.396.193, where all specialist nurses signed the informed consent form, following the recommendations of the Resolution 466/2012, of the National Health Council.
RESULTS

54,847 concepts were extracted from the selected publications, which were submitted to the process of excluding repetitions, normalization and standardization in relation to ICNP® 2017. In the end, there were 489 concepts involving the psychobiological, psychosocial (n = 378) and psychospiritual (n = 111) needs of people with metabolic syndrome.

Of the total of standardized and standardized concepts, 441 were validated and subjected to similarity and comprehension analysis, which made possible the elimination of synonyms, culminating in 389 primitive concepts related to psychobiological (n=207), psychosocial needs (n=121) and psychospiritual (n = 61) of people with metabolic syndrome. After cross-mapping, it became clear that 56.3% of the validated concepts were contained in ICNP® 2017, as submitted in Chart 1.

As for the constant primitive concepts, those related to the Focus (44.7%) and Action (31.1%) axes prevailed, followed respectively by the Judgment (6.8%), Location (5%), Means (4.6), Time (4.1%) and Client (3.7%) axes. Concerning the non-constant concepts, those related to the Action (56.5%) and Focus (21.8%) axes prevailed, followed respectively by the Judgment (14.7%), Time (3.5%) and Means (3, 5%) (Chart 2).


<table>
<thead>
<tr>
<th>AXLES</th>
<th>N*</th>
<th>CONSTANT CONCEPTS (N=219)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focus</td>
<td>(n=98)</td>
<td>Abandonment (10041692), Absorption (10000291), Withdrawal (10035422), Alcohol Abuse (10002137), Tobacco Abuse (10019766), Acceptance (10000329), Access (10000340), Adaptation (10017141), Adherence (10030298), Self Feeding (10017730), Distress (10006118), Spiritual Distress (10018583), Anxiety (10002429), Family Support (10023680), Social Support (10024074), Attention (10002924), Attitude (10002930), Self Care (10017661), Self Esteem (10017724), Self Image (10017776), Autonomy (10003054), Ability (10000034), Ability To Manage Regime (10000068), Behaviour (10003217), Sexual Behaviour (10017949), Belief (10002429), Religious Belief (10016728), Consent (10004981), Communication (10004705), Status (10018793), Cardiovascular Status (10033946), Nutritional Status (10013419), Trust (10025934), Decisional Conflict (10005587), Knowledge (10011042), Adequate Knowledge (10014885), Control (10005135), Growth (10008563), Culture (10005458), Recreational Development (10016524), Human Development (10009200), Discomfort (10023835), Diabetes (10005876), Dignity (10005979), Readiness To Learn (10016422), Emaciated (10047162), Coping (10005208), Hope (10009095), Psychosocial Structure (10016096), Balance (10003110), Stress (10018888), Exercising (10007315), Fatigue (10007717), Blood Glucose (10030832), Hyperglycaemia (10027521), Body Image (10003405), Disability (10005980), Eating (10006517), Insecurity (10010311), Integrity (10010416), Injury (10010284), Self Management (10046837), Non Adherence (10013248), Need (10012495), Care Need (10030878), Obese (10013457), Weight (10021034), Pleasure (10014682), Blood Pressure (10003335), Procedure (10034409), Spiritual Process (10018596), Sexual Process (10017977), Vascular Process (10020620), Perception (10014270), Relationship (10016684), Regime (10016609), Behavioral Regime (10038993), Dietary Regime (10005951), Medication Regime (10011884), Income (10031563), Response to Treatment (10017070), Laboratory Result (10011074), Routine (10017384), Blood (10003319), Health (10008711), Service (10017908), Symptom (10019368), Cardiovascular System (10003936), Body System (10003480), Overweight (10013899), Suffering (10019055), Loneliness (10011417), Sleep (10041399), Tachycardia (10019415), Rate (10016390), Fatty Tissue (10007729), Urine (10020478), Bonding (10003548)</td>
</tr>
<tr>
<td>Judgment</td>
<td>(n=15)</td>
<td>High (10009007), Low (10011438), Dependence (10026671), Large (10011116), Mild (10025854), Improved (10026692), Moderate (10025865), Negative (10010981), Small (10018315), Positive (10010981), Impaired (10012938), Actual (10000420), Risk (10015007), Severe (10025877), Simple (10024061)</td>
</tr>
</tbody>
</table>

*N: absolute number.
Chart 1. Continued...

<table>
<thead>
<tr>
<th>AXEL</th>
<th>N*</th>
<th>CONSTANT CONCEPTS (N=219)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Action</strong></td>
<td>(n=68)</td>
<td>Accompanying (10042609), Counselling (10005254), Scheduling (10017528), Adjusting (10001760), Alleviating (10002171), Altering (10002185), Analysing (10002298), Appling (10002464), Supporting (10019142), Attending (10002911), Increasing (10009961), Auscultating (10003012), Assisting (10002850), Evaluating (10007066), Calculating (10003818), Collecting (10004574), Place Or Or In (10016201), Verifying (10020727), Consulting (10005017), Cutting (10005491), Caretaking (10004002), Collaborating (10004542), Controlling (10005142), Demonstrating (10005713), Describing (10005797), Developing (10005848), Decreasing (10005600), Documenting (10006173), Educating (10006564), Praising (10015409), Referring (10016576), Encouraging (10006823), Contracting (10005119), Involving (10010877), Establishing (10024813), Stimulating (10018842), Avoiding (10003077), Examining (10007256), Facilitating (10007499), Advancing (10001901), Ensuring (10006950), Identifying (10009631), Implementing (10009840), Initiating (10010221), Handling (10041830), Maintaining (10011504), Measuring (10011813), Minimizing (10012080), Monitoring (10012154), Motivating (10012242), Observing (10013474), Obtaining (10013572), Offering (10013636), Organizing (10013806), Teaching (10019502), Listening (10011383), Participation (10014099), Planning (10014648), Preventing (10015620), Prioritizing (10015736), Providing (10015935), Reinforcing (10016650), Recording (10016498), Removing (10016763), Requesting (10016873), Responding (10017004), Restoring (10017140), Transporting (10020076), Changing (10004162)</td>
</tr>
<tr>
<td><strong>Time</strong></td>
<td>(n=9)</td>
<td>Continuous (10005086), Chronic (10004395), Frequency (10008234), Onset (10013689), Morning (10012226), Present (10015581), Situation (10018202), Afternoon (10001955), Home Visit (10009082)</td>
</tr>
<tr>
<td><strong>Means</strong></td>
<td>(n=10)</td>
<td>Food (10008089), Drink (10006269), Clinical Pathway (10004463), Interprofessional Team (10039400), Intervention (10010535), Plan (10014630), Meal (10011809), Nursing Service (10013380), Nutrient (10013398), Health Promotion Service (10008776)</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>(n=11)</td>
<td>Abdomen (10000023), Capillary (10003860), School (10017537), Neck (10012476), Position (10014788), Lung (10011486), Kidney (10022439), Skin (10018239), Muscle (10012290), Outpatient Department (10013852), Health Care Unit (10008724)</td>
</tr>
<tr>
<td><strong>Client</strong></td>
<td>(n=8)</td>
<td>Adult (10001889), Community (0004733), Child (10004266), Caregiver (10003958), Family (10007554), Group (10008544), Individual (10010018), Patient (10014132)</td>
</tr>
</tbody>
</table>

*N: absolute number.


<table>
<thead>
<tr>
<th>AXEL</th>
<th>N*</th>
<th>NON-CONSTANT CONCEPTS (N=170)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Focus</strong></td>
<td>(n=37)</td>
<td>Welcome, Affectivity, Skills, Self Knowledge, Well Being, Cephalalgia, Abdominal circumference, Costume, Constraint, Desire, Disease, Understanding, Enthusiasm, Effort, Sport, Life style, Eutrophic, Life Expectation, Faith, Weighed gain, Hypercholesterolemia, Hyperinsulinemia, Hypertriglycerideremia, Body mass index, Holistic, Paying, Palpitation, Peace, Perseverance, Claim, Reflection, Repose, Serenity, Feeling, Metabolic syndrome, Socioeconomic, Awe, Therapeutic</td>
</tr>
<tr>
<td><strong>Judgment</strong></td>
<td>(n=25)</td>
<td>Shaken, Altered, Active, Basic, Good, Conflicting, Short, Unfavorable, Elevated, Rare, Spontaneous, Equivalent, Failure, Inadequate, Incomplete, Long, Major, Minor, Insufficient, Premature, Prolonged, Rigorous, Scared, Satisfactory, Sedentary</td>
</tr>
</tbody>
</table>

*N: absolute number.
In this axis, the concepts identified and validated are contained in ICNP.

### NON-CONSTANT CONCEPTS (N=170)

<table>
<thead>
<tr>
<th>AXELS</th>
<th>N*</th>
<th>Concepts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>(n=6)</td>
<td>Schedule, Integral, Limit, Term, Periodic, Rapid</td>
</tr>
<tr>
<td>Means</td>
<td>(n=6)</td>
<td>Counseling, Integral, Limit, Term, Periodic, Rapid</td>
</tr>
<tr>
<td>Location</td>
<td>-</td>
<td>In this axis, the concepts identified and validated are contained in ICNP® 2017</td>
</tr>
<tr>
<td>Client</td>
<td>-</td>
<td>In this axis, the concepts identified and validated are contained in ICNP® 2017</td>
</tr>
</tbody>
</table>

*N: absolute number.

Of the total of constant and non-constant concepts 43.2% were or were classified in the Action axis, followed by the Focus axis (34%). The concepts highlighted in Chart 2 are contained in ICNP® 2017 as specifying concepts, but not as primitive concepts with specific code.

### DISCUSSION

The communication of a discipline/profession, with society, between themselves or other members of a certain area, goes through the question of how knowledge is organize, being in a continuous evolution process, expressed by concepts/terms that represent the relevant phenomena. In this study, due to the large number of concepts/terms extracted from the empirical bases, the process of normalization and standardization collaborated with the refinement and organization of nursing terminology for the care of people with metabolic syndrome Considering the publication of the 2019 version of ICNP®, there was no disagreement between the concepts of this terminology as to the constancy in the current version, as well as no non-constant concept was inserted in the current Classification version.

The concepts extracted, especially the most frequent ones, such as health, risk, blood pressure, well being, belief, self care, lifestyle, and the concept of the priority of this study, metabolic syndrome, are inserted in the field of action of nurses in Primary Health Care, involving basic human needs in all its dimensions. The most frequent concepts are mostly linked to ICNP®, fundamental instrument of the work process that includes concepts that describe the important phenomena of the profession in a uniform way, collaborating for the development of Nursing and demonstrating contribution in health care.

Employing concepts inserted in a classification system, whether for teaching, research or assistance collaborates in improving the quality of nursing records, enables continuity of care, consistency in communication and increased safety for those involved in the care process, converging with the purpose of this study, in which the specialized nursing terminology constructed can integrate several instruments, information systems and theoretical models.

In the context of Primary Health Care, due to the specific duties of the nurse, instruments and methods directed to the systematization of care are required, above all, compatible with the assumptions of collective health, using information technologies for operationalization, documentation and planning of actions in health. Thus, the nurse who works in Primary Health Care can use the concepts of the terminology built in this study to carry out the nursing records from the consultation with the person with metabolic syndrome, as well as develop assessment or measurement instruments for use in clinical practice, with an impact on the quality of care and subsidizing the generation of health and nursing indicators.

Due to the difficulty of this study to highlight concepts/terms of care for people with metabolic syndrome in nursing records from practice, the validation process was essential to verify the relevance of the concepts/terms extracted in relation to the theme, influencing what is referred to by the authors that although the terminologies present universal concepts/terms, they must be adapted to the reality and regional, institutional and cultural
particularities of each population, in order to be recognized by the professionals who will use them.

The validated concepts were mostly inserted in the psychobiological and psychosocial needs, a fact observed in the results of another study involving diabetes mellitus,30 relating them to the question that they are more approached and studied in the scientific community, as well as the training that still does not prioritize the biological activity, focused on the disease, widely evident in clinical practice, with a lack of concepts/terms inserted in the psychospiritual needs.

The reduced quantity of concepts in the psycho-spiritual dimension is related to their insufficient recognition in health care, especially in the context of cardiovascular prevention, due, also, to the emphasis on the biomedical model.35 Nurses should consider the importance of spiritual care, registering actions through concepts that demonstrate the existence of this dimension and that it is integrated in an integrated way with biological and social, as presented in this study, and not in a segregated way.

When relating validated concepts to the concepts of the Nursing Metaparadigm, there is an interrelation between them, in which the relevant concepts reflect the interaction of the person with metabolic syndrome and the environment of primary care, influenced by nursing care, from the perspective of cardiovascular prevention and health promotion, with the potential to reduce morbidity and mortality from cardiovascular disease and diabetes mellitus type 2. These relevant concepts are organized in order to support the construction of diagnoses/results and nursing interventions for health priority, considering the axes of the Classification and the ISO 18.104:2014 Standard.

Through cross-mapping, there was a predominance of concepts validated as contained in ICNP® 2017, mainly involving the Focus axis, in concepts such as food, self care, self image, communication, knowledge, belief, physical exercise, hyperglycemia, food, need, blood pressure, health, overweight. As for the non-constant concepts, the concepts of the Action axis prevailed, such as alerting, paying attention, understanding, teaching, encouraging, involving, recommending, reducing, valuing. The concepts mentioned are evident in the literature in the national and international literature.2,13,14,36,37

The large number of concepts not included in the Classification stands out, demonstrating the continuous demand for updating to include relevant concepts in nursing care, as proposed in this study. Cross-mapping collaborates with this Classification evolution process and the development of nursing technologies that enable dialogue between different specialties and countries,36 for inclusion in health information systems, generating health indicators from nursing practice.

The challenge for Nursing researchers converges with the exposed results, such as the recognition of standardized language systems, as legitimate repositories of concepts created by research30 and the unification of these, avoiding (re) work, because if the term was analyzed, there would be a discussion about the adequacy of the proposed definition in relation to the new context,3 what this study would collaborate, considering the number of concepts not included in ICNP® e and their potential use in different contexts of nursing care in cardiology and other related areas.

CONCLUSIONS AND IMPLICATIONS FOR PRACTICE

It was possible to achieve the proposed objective with the construction of specialized nursing terminology for the care of people with metabolic syndrome, prevailing primitive concepts contained in ICNP® 2017, but with significant numbers of non-constant concepts to be inserted in future versions of the Classification. These are mostly inserted in the Focus and Action axes, with an impact on the production of innovative products with the future structuring of a terminology subset of ICNP®, aimed at monitoring the health priority in Primary Care, as well as clinical instruments and conceptual models for the person with the syndrome.

The extraction of concepts/terms only from the literature in the area and the choice of general descriptors for the second search directed to the psycho-spiritual need of the human being and their relationship with Nursing, not considering the descriptor metabolic syndrome, are configured as a limitation of this study, due to the possibility of not reflecting all the particularities of nursing care directed to people with metabolic syndrome. However, this fact did not affect the quality of the study, as the concepts were validated by experts, expanding the margin of relationship between the concepts and the elected health priority.

As implications for practice, there is the proposal of an innovative terminology and the advancement of knowledge about the use of Classification in nursing care for people with the syndrome, contributing to the standardization of professional language and the development of Nursing science. With the submitted results, the relevance related to the nursing actions is strengthened, it stimulates critical thinking and clinical reasoning through the use of concepts to identify phenomena, with the potential to increase information systems in Primary Health Care with nursing care indicators for people with aggregation of cardiovascular risk factors.

CONTRIBUTIONS OF THE AUTHORS

Study conception and design. Data collection, analysis and interpretation. Results discussion. Content writing and/or critical review. Approval of the final version of the article. Responsibility for all aspects of the content and integrity of the published article: Nono Damácio de Carvalho Félix. Célida Juliana de Oliveira. Maria Miriam Lima da Nóbrega. Study conception and design. Data analysis and interpretation. Results discussion. Content writing and/or critical review. Approval of the final version of the article. Responsibility for all aspects of the content and integrity of the published article: Maria Naiane Rolim Nascimento. Natana de Morais Ramos

