ABSTRACT: In implementing the Chronic Care Model, the nurse has been indicated as key. The present study gives a theoretical reflection which aims to reflect on the integration of a theory of nursing into the Chronic Care Model. This reflection originates from a thesis project, in the context of a University Hospital which is a benchmark in the attendance of patients with diabetes, in specialized and hospital care. This proposal relates four elements of the model for organizing the nursing care for this clientele, associated with Horta’s Basic Human Needs Theory. It is considered that using the Chronic Care Model, associated with Horta’s Basic Human Needs Theory, can advance nursing practice with this clientele, evidencing the practice’s elements and, consequently, evidencing the visibility of the nurse’s competences and practice activities in care for the chronic illnesses.

INTRODUCTION

At the beginning of this century, the chronic illnesses appear, in both the Brazilian and world setting, as responsible for the massive increase in the profiles of mortality and functional disabilities, caused by innumerable factors, including urbanization, economic globalization, political and social measures and issues of social injustice – as well as the aging of the population.1

This situation led to the need to change the management of chronic illness, based on new models of care, such as the Modelo de Atenção Crônica or Modelo de Cuidados na Doença Crônica. These translations were presented in the literature to refer to the Chronic Care Model (CCM); the Innovative Care for Chronic Conditions, (ICCC); the Pyramid Model of Risk; and Dahlgren and Whitehead’s Social Determination of Health Model.1-2

Among these models, the Chronic Care Model – the CCM – stands out. It was developed by Dr E. Wagner and collaborators at the MacColl Institute for Healthcare Innovation (Innovation de Seattle), in Seattle in the United States of America (USA), and is considered the most appropriate model for caring for the chronic illnesses, due to having been validated for and being used in more than ten countries.3 One should also note the fact that this model has a design which is basic but comprehensive, so as to organize care for the chronic illnesses and comply with the requirement to be based on scientifically-substantiated data, with a populational perspective, and centered on the service users.4

The CCM was devised to be a multidimensional solution for a complex problem, relying on a team of motivated professionals including the nurse, who takes on a fundamental role because of being in the front line of practice in terms of providing the patient with information and education; establishing relationships with the clients, caregivers and communities; providing continuity of care; using technology to optimize the provision of care; as well as supporting adherence to therapies in the long-term and promoting collaborative practice.1

In this perspective of the complexity of chronic illnesses, greater emphasis is placed on educational actions for self-care, the team of professionals necessarily presenting knowledges (physiopathology, nutrition, physical activity and specific care), skills (knowing how to listen, communicate, lead, evaluate and work in a team) and attitudes (empathy, welcoming, motivating, flexibility, creativity and initiative) directed to the organization and planning of such practices.5

In the light of the possibility of applying it in any chronic condition, this model was selected for re-designing the nursing care for the clientele with diabetes attended in specialized care, due to this being a priority in the health systems, as well as being a benchmark in the place of work of one of the authors.

As a result, this study aims to reflect on the implications of the integration of a theory of nursing in the Chronic Care Model, applied to the care for people with diabetes, attended in the outpatient endocrinology sector of a teaching hospital, so as to contribute with greater effectiveness to nursing care for this specific clientele.

This article’s reflections resulted from the thesis project of an ongoing doctorate course, whose object of investigation is the construction of a terminological subset of the International Classification for Nursing Practice (ICNP®) for clients with diabetes mellitus in specialist care, as a facilitating instrument for the systematization of the nursing care directed at these people. First of all, the article presents the issue of the Chronic Care Model, where its development originated, its components, evaluation and its application; next, the role of nursing, with its activities and competences; and, finally, a proposal for the integration of a theory of nursing in the Chronic Care Model.

THE CHRONIC CARE MODEL

The CCM was developed through a wide review of the international literature on the management of the chronic illnesses, as a response to the situations of health involving a high prevalence of chronic conditions and the failure of the health care systems in the USA. Its authors believe that, based on this model, people can be better-attended and can live more healthily – and that in parallel, the health care costs can be reduced with the radical change in the model of health care.2

The CCM is made up of six elements (Figure 1), subdivided in two main fields: the health care system, and the community. In the health care system, the changes must be made in the organization of the health care, in the design of the line of care, in support for clinical decisions, in the clinical information systems and in support for self-care. In the community, the changes are centered on the articulation of the health services with the community’s resources. These six elements present
inter-relations allowing the development of people who are informed and active, and of a health team which is prepared and pro-active to produce better health and functional results for the population.6

Figure 1 – Chronic Care Model, adapted²

In order to implement the CCM, whether in its totality or partially, it is necessary to know what the use of each element requires, taking into account the changes which are required for each one. In ‘Organization of Health Care’, the changes aim to create a culture, organization and mechanisms which promote safe, high quality care; in the ‘Design of the line of care’, the aim is to ensure effective and efficient health care and ‘Support for self-care’; in the ‘Support for clinical decisions’, the aim is to promote health care which is consistent with scientific evidence and with the preferences of the service users; in the ‘Clinical information system’, it is to organize the data regarding the
population and the service users, so as to facilitate more effective and efficient health care; in ‘Support for self-care’, it is to prepare and empower the people for them to manage their own health and the care provided; while in ‘Resources and policies’, it is to mobilize these resources to meet the service users’ needs.²

In relation to the evaluation of the CCM, there is evidence in the international literature regarding its positive effects in the care for the chronic conditions, whether in joint evaluation, or in the evaluation of its elements separately. In spite of having been developed, applied and evaluated in the USA, the original proposal of the CCM has been adapted in various countries and situations and has generated a series of derived models in both developing and developed countries.²,⁴

This model finds a better environment for being implemented in public and universal systems of health care. In Brazil, these are used, partially, as part of innovative experiments in care for chronic illnesses in the Unified Health System (Sistema Único de Saúde - SUS) in some municipalities, accepted by the Ministry of Health in the Strategic Action Plan for Facing the Chronic Non-Transmissible Disease (NTD) 2011-2022, and also serve as the basis for the development of a new model applicable to the Brazilian public health system, termed the Model for Care for Chronic Conditions (MACC).²

Table 1 shows the nurse’s activities working with the CCM, specifically for each of the model’s elements, as described by the International Council of Nurses (ICN), which indicates the nurses as key elements for implementing it, due to their participating in a patient-centered care team.

<table>
<thead>
<tr>
<th>Elements of the CCM</th>
<th>Nurse’s activities</th>
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<tbody>
<tr>
<td>Support for self-care</td>
<td>- Involve the clients as active partners in the management of the illness.</td>
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<tr>
<td></td>
<td>- Provide information and education for the clients and the public in general.</td>
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<tr>
<td></td>
<td>- Facilitate self-care and management by the client.</td>
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<td></td>
<td>- Develop relationships with patients and their caregivers.</td>
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<tr>
<td>Design of the line of care</td>
<td>- Lead in prevention, tracking, evaluation and diagnosis.</td>
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<td></td>
<td>- Move from reactive care to planned care.</td>
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<tr>
<td></td>
<td>- Use a team approach and collaborative practice.</td>
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<td></td>
<td>- Undertake tracking of high risk groups.</td>
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<td></td>
<td>- Coordinate the care for clients with complex needs.</td>
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<tr>
<td>Support for clinical decisions</td>
<td>- Make systematic use of evaluative and diagnostic instruments.</td>
</tr>
<tr>
<td></td>
<td>- Use evidence-based protocols and guidelines for clinical practice.</td>
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<td></td>
<td>- Coordinate referrals to specialists.</td>
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<tr>
<td>Clinical information system</td>
<td>- Communicate effectively and manage the information appropriately.</td>
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<td></td>
<td>- Use new technologies.</td>
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<td></td>
<td>- Focus on improving care.</td>
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<tr>
<td>Resources and policies</td>
<td>- Create strong links with entities in the community.</td>
</tr>
<tr>
<td></td>
<td>- Encourage clients to participate in efficacious programs.</td>
</tr>
</tbody>
</table>
Organization of health care

- Commit to supporting the strategic development of the infrastructure of planned care.
- Adopt appropriate leadership roles in organizations and between organizations.
- Develop agreements for the coordination of care.
- Use and manage resources cost-effectively.
- Contribute to the undertaking of policies, planning and the management of services.

Source: ICN1.

For this, it is crucial for these professionals to acquire specific competences to prevent and manage chronic illness, and thus to contribute with all their potential. These competences are to be found in an ICN publication, termed Nursing Care Continuum Framework and Competencies. Among the nine, the following stand out: participating in activities related to improving access to the range of effective health services; respecting the client’s right to information, choice and self-determination in nursing and health care; demonstrating professional integrity, good character, and ethical conduct in response to the marketing strategies from the industry in prescribing drugs and other products, among others. In spite of the ICN indicating the activities and competences for the nurse to employ in practice, the lack of a theoretical nursing model for guiding care in this area is evidenced.

PROPOSAL FOR INTEGRATING A NURSING THEORY IN THE CHRONIC CARE MODEL

The proposal was perceived when the project was structured for the construction of a terminological subset of the ICNP® for people with diabetes mellitus under specialized care, for the Lauro Wanderley University Hospital (HULW/UFPB), which stands out as a benchmark in care for the diabetic patient. It is intended that this subset should constitute an easily-accessible reference instrument for care, to improve the documentation of nursing care and promote the safety and quality of the health care in the above-mentioned clinical sector. The theoretical frameworks selected for the study were the CCM and the Basic Human Needs Theory.

The choice of the Basic Human Needs Theory is explained by the fact that it is the theoretical model upon which is based the HULW/UFPB’s Systematization of Nursing Care (SNC) project, as well as because of the understanding that, for appropriate and individualized nursing care, it is necessary to adopt a nursing process, based on a specific theory, which should be known to all the professionals of the institution in which the care is undertaken.

In this regard, the care proposal, in this study, was organized including four elements of the CCM (Figure 2), namely: support for the person with diabetes for self-care; structuring of the line of care for the person with diabetes, a clinical information system regarding the person with diabetes, and support for the clinical decision regarding the person with diabetes.

The selection by means of these four elements brought into consideration the recommendations proposed in a recent evaluation of the CCM, in which the evidence suggested that the practices should be redesigned, in accordance with the various chronic illnesses, taking into account the specific characteristics of each place of care.

Thus, in order for the management of the care for the person with diabetes in the HULW/UFPB endocrinology outpatient unit to have nursing care planned in accordance with the basic human needs, allowing the achieving of positive results in the productive interactions between nurse and client, some changes were proposed in the selected elements of the CCM. These changes aimed to support the nursing process, understood as a theoretical-methodological instrument which guides the planning of the nursing care.

In the element ‘Support for the person with diabetes for self-care’, the basic human needs which support the changes for the supporting of self-care for people with diabetes are to be identified, through the use of the first three stages of the nursing process: the nursing history (identification of the problems); nursing diagnoses (identification of the needs of the human being); and the care plan (determination of the nursing care which the human being must receive in the light of the nursing diagnosis established). The correlation of the theory with this element is explained bearing in mind that nursing consists of the art and science of assisting the human being in meeting his basic
needs and in making him independent of this assistance, when possible, by teaching self-care— as well as recovering, maintaining and promoting health in collaboration with other professionals.9 Also taken into consideration, in this correlation, was the context present in the above-mentioned endocrinology sector, where the nursing consultation is not systematized, with the health education being worked on in separate stages (medication, diet, physical exercise, care for the feet), in sequential consultations (verbal information) without any basis in a model or theory of nursing.

Figure 2 – Management model for the person with Diabetes in the specialized care at the HULW/UFPB

This being the case, it is believed that by undertaking these changes, based on the Theory of Human Needs, it will be possible to raise the awareness of people with diabetes regarding their need to make changes in their lifestyles, empowering them to problematize their condition, so as not to accept their state, and making them believe that they can change their reality. These behaviors of self-care are directed at physical activity, healthy eating, monitoring of glycemia, medication, the
resolution of problems, healthy coping, and the reduction of risks.

The second element refers to the Clinical information system regarding the person with diabetes. In this aspect, it is fundamental that the information from the clinical records should be organized and systematized, so as to make it possible to integrate it into the health information systems, making it possible to document the nursing practice regarding the stages of the nursing process. This documentation takes place in the nursing consultation, in the stages of the nursing history, the nursing diagnosis, the care plan or nursing instructions (implementation of the care plan) and the progression of the nursing (reporting of the successive changes which occur in the patient being assisted).

So as to support this organized and systematized information from the nursing documentation, it is necessary to use a nursing information system. In the present research, the ICNP® was chosen, due to being a terminology which represents nursing worldwide, providing data for the representation of nursing practice in the health information systems.

In the current context, in the HULW/UFPB, no nursing information system is used for documenting the nurses’ practice in the consultations with the people with diabetes. This fact does not allow the representation of the nursing practice in a systematized way, thus compromising the visibility of the nurses’ work in the context of the care given to the people with diabetes, and the communication of the nurses from the various sectors of the hospital involved in attending this clientele.

The third element refers to the ‘Support for the clinical decision regarding the person with diabetes’, which should be directed by applying the nursing process, particularly when the nurse develops clinical reasoning, to identify the nursing diagnoses, and therapeutic reasoning, when she defines the planning and implements the nursing instructions. The objective is to promote individualized and holistic care based on identifying the needs of the person with diabetes, grounded in scientific knowledge.

In this way, so as to ensure greater reliability and focusing in the nurse’s decision-making in the care for this specific clientele, it is hoped that the ICNP®’s terminological subset for people with diabetes may be used in the specialized care, as a care benchmark. In this subset, the statements of the diagnoses, outcomes and nursing interven-

The fourth element, covered by the structuring of the line of care for the person with diabetes, is directed for there to be integration between the three levels of health care, which ensures the movement of referral and counter-referral among the patients who are referred via the Family Health Strategy to the endocrinology outpatient unit and to the internal medicine unit (endocrinology sector), both of the HULW/UFPB, so that these clients may be better managed, and the complications arising from this illness be minimized.

In the light of the above, it is believed that the implications of the integration of a nursing theory in the CCM could bring positive results, as this would make effective care possible with the chronic illnesses, emphasizing the individualization of care in line with the needs of the person with diabetes.

Reiterating the data above, linked to the fact that the CCM is used by all the members of the health team, its application by the nurses, based on a specific theory, could foster new knowledges in the improvement of the profession in the attention to chronic care, as the theories of nursing were conceptualized with the aim of organizing and systematizing the issues which permeate the professional activities and generate knowledges which support them and support the practice itself.

FINAL CONSIDERATIONS

The reflection undertaken in this study made it possible to gain an understanding of the CCM and the integration of a theory of nursing, with the future aim of use of their elements, either multidimensionally or singularly, to restructure the process of nursing care for the person with diabetes, attended in the endocrinology outpatient department at the HULW/UFPB.
In this process of restructuring the process of nursing care, it is relevant to consider the role of the nurse, who needs to reflect on the need to improve his or her practice in chronic care, with tools which guide nursing practice in a safe, organized and competent way, in which emphasis is placed on the use of the nursing process, based on a theoretical model, appropriate through the systematization of the nursing care.

Thus, based on the proposal presented, it is considered that using the CCM associated with Horta’s Basic Human Needs Theory can advance nursing practice for this clientele and evidence the elements of the practice (nursing diagnoses, outcomes and interventions) and, consequently, evidence the visibility of the nurse’s competences and practice activities in care for the chronic illnesses.

REFERENCES