Perceptions of nurses and clients about nursing care in kidney transplantation

Percepções de enfermeiros e clientes sobre cuidados de enfermagem no transplante de rim

Camila Medeiros dos Santos¹
Filomena Maria Kirchmaier²
Wagner Jaernevy Silveira¹
Cristina Arreguy-Sena¹

Abstract

Objective: To analyze the perceptions of nurses and transplanted patients about the pre-transplantation nursing consultation of kidney transplantation.

Methods: Qualitative study with content analysis as the methodological approach. The participants were ten nurses and two categories were identified (contents and user demands in the immediate pre-transplantation phase; and conceptions, behaviors, expectations and emerging situations during and after the kidney transplantation and 20 transplanted patients with two categories (previous experiences with restrictions imposed by the dialysis; and unexpected or conflicting situations identified during and after the transplantation). The research instrument contained the variables related to the sample characteristics, guiding questions and situations of overcoming according to the perceptions of nurse specialists and post-transplanted patients.

Results: Coincidence and complementarity was found between the subjects’ approaches and the forms of coping during and after the transplantation.

Conclusion: The nursing consultation in the pre-transplantation phase is important to incorporate the orientations into the experiences and behaviors of transplanted patients in the course of the transplantation process and after the procedure.

Keywords
Nursing care; Kidney transplantation; Nursing, practical; Nursing process; Nursing research

Descritores
Cuidados de enfermagem; Transplante de rim; Enfermagem prática; Processos de enfermagem; Pesquisa em enfermagem

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Corresponding author
Camila Medeiros dos Santos
José Lourenço Kelmer street, unnumbered, Juiz de Fora, MG, Brazil.
Zip Code: 36036-330
cristina.arreguy@ufjf.edu.br

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¹Universidade Federal de Juiz de Fora, Juiz de Fora, MG, Brazil.
²Hospital Universitário, Universidade Federal de Juiz de Fora, Juiz de Fora, MG, Brazil.
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Introduction

The kidney transplantation is a surgical act that consists in the ablation of one person’s organ and its implantation in another person. It is indicated for people with stage 5 chronic kidney failure. Pre-emptive transplantation can be considered though, defined as the practice of transplantation before the patient starts the kidney replacement therapy.\(^{(1)}\)

Kidney transplantation is the preferred option, contributing towards greater survival and a better quality of life for these clients.\(^{(2,3)}\)

Kidney transplantation can be practiced using a healthy organ from a dead or live donor (relative or not). It allows the subject to regain their way of life, generally altered by the aspects involved in the dialysis treatment.\(^{(4-6)}\)

The comparison between the number of kidney transplants and the number of people awaiting a kidney reveals the magnitude of this public health problem. As a result, the government spends resources on the management and maintenance of dialysis patients and impede patients from using the benefits of the transplantation.\(^{(7)}\)

It is important to highlight that patients under dialysis, especially hemodialysis, live with several nuances the treatment imposes, including dependance on a machine to survive, the need to live with a treatment access, which is the arteriovenous fistula, graft or double-lumen catheter, and with limitations, such as dietary and fluid volume restrictions. This reality entails negative impacts for the biopsychosocial being and lifestyle of the patients and their families.\(^{(8,9)}\)

The abovementioned situations underline the importance of the transplantation in these people’s life. The risks inherent in the post-kidney transplantation are high.\(^{(10)}\) Hence, due to the presence of complications, rejection or not of the graft, the kidney transplantation may mean an abrupt interruption of the transplanted subject’s expectations, representing the need to return to the dialysis treatment, living with its nuances or even with death.

Nursing care is important across the kidney transplantation process in different aspects, highlighting the patient and the family’s preparation for the transplantation, the organ procurement, maintenance of the potential donor in brain death, as well as during and after the transplantation.

The nurses need to prepare to welcome and take care of these patients, respecting their activity context, contributing towards the integrity of care. The nursing consultation is a soft technology modality the nurses use to guide and express their evidence-based professional activities in the work environments and in specialized care.

The premises that justify the development of this research are: 1) living with dialysis treatment is a stressful and bothersome reality that can interfere in the quality of life of patients and their family members; 2) awaiting a kidney can come with disinformation, hampering the assimilation of the defense mechanism to cope with the procedure and the post-transplantation period; 3) the nursing consultation is a care technology modality that can allow the nurses to identify the care needs and demands to cope with the kidney transplantation process and 4) patients’ failed/successful transplantation experiences can guide therapeutic conducts to be included in the content of the nursing consultation in the pre-kidney transplantation period.

In view of the above, the objective in this research was to analyze the nurses and transplanted patients’ perceptions of the nursing consultation in the pre-kidney transplantation period.

Methods

This qualitative study, which adopts content analysis as the methodological approach, was undertaken in 2013 at a specialized nephrology service in an interior city of the State of Minas Gerais and involved nurses and patients after kidney transplantation.

The intentional sample consisted of: 1) Ten nurses who worked with kidney replacement treatment patients before and/or after a kidney transplantation and 2) 20 post-transplantation patients, in coherent verbalization conditions, male and female, over 18 years of age.
The inclusion criteria were: nurses and absent post-transplantation patients (vacation, leave, diseases, trip or absence from the consultation).

The research instrument contained the following research variables: characterization of the participants; guiding question (Post-transplantation patient: did you participate in a nursing consultation? How do you assess the care received? After the kidney transplantation, what situation(s) did you consider unexpected? What did you expect from the transplantation? What did you expect after having received the kidney transplantation? What would you like to receive clarifications about or what are you interested in? and Nurses: How do you conceive the renal transplant patient and the patient to deal with in the kidney transplantation process? What do you consider that needs to be discussed during the pre-renal transplantation nursing consultation? After the renal transplant, what situation do you consider unexpected in your professional experience? What expectation do you witness about the kidney transplant candidates when they submit to the renal transplantation? How do you feel when dealing with people in the kidney transplantation process? What do you consider important to discuss in the pre-renal transplant nursing consultation to favor coping and adherence to the treatment in the post-transplantation period? and additional information.

The data were collected during individual interviews and digitally recorded, held in a private environment and triggered by the guiding questions.

The collected data were organized and analyzed according to the thematic categorical content analysis technique. The recorded data were transcribed and then, the subjects’ discourse was subject to floating reading.

Next, for the sake of further exploration, the material was read repeatedly. This fact permitted the division of the text into recording units and the identification of emerging categories. For that purpose, the software NVivo version 10 was used and the similarity of codes criterion was adopted to identify the units of meaning. The clusters were presented through dendrograms and pie charts, aiming to show the strengths of the link between the units of meaning established, according to Jaccard’s correlation criteria available in that software.

This information added rigor to the data analysis and interpretation, as it favored a graphical image of the links between the thematic categories and the research problem, corresponding to the conceptions of the transplanted patients and the nurse specialists with regard to the contents and utility of the nursing consultation in the pre-renal transplant period. The content analysis was based on literature relevant to the theme.

The research development complied with the Brazilian and international ethical standards for research involving human beings.

Results

Among the 20 transplanted patients, 55% were women between 35 and 43 years of age; 80% had less than eight years of education and 5% ≥14 years; 16.6% were retired and had no stable occupation and 10% were students and general maintenance workers, respectively. The mean waiting time for the renal transplant was two years (range between four months and seven years); 55% of the transplants involved a deceased donor and 75% of the participants took part in the nursing consultation in the pre-kidney transplantation phase.

Among the ten nurses, eight were nephrology specialists; 50% had between five and nine years of professional experience and 30% more than ten years; the length of activity in nephrology ranged between two months and 17 years, with 50% between five and ten years, and the religion practiced was Catholic (50%); Kardecist (20%) and protestant (30%).

Four clusters were identified, two of which served to express the nurses’ impressions (1- contents and demands of the users in the immediate pre-transplantation phase and 2- conceptions, behaviors, expectation and possible situations that emerge during and after the renal transplant) and two to express the transplanted patients’ impressions in the post-procedure period (1- previous experiences with restrictions and kidney replacement...
Discussion

The limitations in the study results are related to the qualitative method, which does not provide evidence, but can reveal new aspects of the research problem.

The results indicated that, in practice, the pre-transplantation phase is a rich moment that can favor educational approaches, clarification of doubts, reduction of anxiety and reassertion of treatment adherence behaviors in the post-transplantation phase, that is, components that picture the nurse’s activity area and are essential to guarantee the success of the transplantation therapeutics.

The contents the participating nurses highlighted permeated the need to identify the conceptions, knowledge, information and needs individually; the assessment of the users’ expectations and expected lifestyle in the post-transplant phase. Hence, the professionals who have contact with the users throughout the transplant process identify and have reached a consensus on these elements, whether in situations of success or failure.

In the category “contents and demands of users in the immediate pre-transplantation phase”, the requisites, preparations and emerging needs in the pre-renal transplant phase were addressed, expressed in the thematic axes “content addressed and
work in the pre-transplant phase” as shown in the
dendrogram (Figure 1).

In the pie chart (Figure 1), it could be iden-
tified that, in the nurses’ perspective, there was
a causal nexus between the contents addressed
during the nursing consultation and the possible
causes the patients experienced in the course of
the renal transplant (intra or immediate or late
post-transplant phase). This fact was evidenced
by the correlation lines of the knots construct-
ed by means of the coding similarity technique,
based on Jaccard’s correlation coefficient. These
lines picture the range of the nurses’ perception
and experience with the renal transplant process,
to the extent that it takes the form of profes-
sional perception of the emerging needs and care
demands since the pre-transplantation until the
intra and post-transplant phase, due to the fact
that they know the problems and reasons for fail-
ure that may emerge.

There is evidence that adherence in the
post-kidney transplant period is more significant
without side effects of the immunosuppressive
drugs and with appropriate professional moni-
toring, including compliance with the orienta-
tions on how to proceed on certain occasions.
This can contribute to return to the previous
activities. The relevance of assessing the trans-
planted patient’s behavior with regard to the
health professionals’ orientations is highlight-
ed, with a view to identifying the threshold of
non-adherence to the conducts established, espe-
cially regarding the medication prescribed in the
kidney transplantation context.\(^{10} \)

In the category “conceptions, behaviors, expec-
tations and possible emerging situations during the
intra/post-kidney transplant period”, the intent was
to understand the participants’ expectations and
their information and conceptions about what they
experienced during and after the renal transplant,
with a view to maximizing the adherence to the
treatment and recovery.

The nurses who are active in nursing con-
sultations are affiliated with the transplantation
service itself and those who dealt with the users
in the kidney replacement phase reaffirmed the
importance of addressing some contents in the
nursing consultation as a form of preparation,
getting familiar with situations they would face
in the immediate and mediate post-transplanta-
tion phase and adhering to the treatment, aware
of the relevance of their conducts to optimize the
transplanted organ.

According to the patients going through the
renal transplant process, the nursing consultation
addressed the conceptions, knowledge and expec-
tations built based on the desired lifestyle for the
post-transplantation phase.

The doubts and uncertainties the people who
will receive a kidney transplant makes them re-
affirm the absence of care and/or treatment in
the post-transplantation period, hampering
their coping when these situations emerge in
the post-transplantation period. The process of
providing information and clarifying doubts is
fundamental to adjust a healthy and responsible
behavior.\(^{10} \)

In addition, there is the personal lack of experi-
ence, although they can approximate what will hap-
pen to them through the experiences shared with
the situation of other colleagues undergoing renal
replacement therapy.

Experiencing the possibility of the trans-
plant as a magical formula capable of putting an
end to the feeling of being stuck due to the di-
alysis treatment, overcoming the dissatisfaction
with not being able to work and/or study, be-
ing obliged to maintain limitations and changes
in dietary habits and fluid intake can make the
transplant be wanted and sought to overcome
these limitations, without influencing the care
the transplant procedure will demand. A study
that assessed the quality of life before and after
the transplant showed an important improve-
ment in the general quality of life in the domains
measured, clearly showing the positive result of
the renal transplant in the transplanted patients’
lives, mainly in their physical health and social
relationships.\(^{2} \)

Strategies like the nursing consultation and the
use of a questionnaire to measure the quality of life
of people who are receiving a transplant can provide
evidence of contents that are to be discussed, so that the changes will not turn into situations that are disappointing or impede a high-quality life.

It should be added that the information in the correlation circle, which shows the connections between the categories, permit identifying the lack of links between category 2 (assessment in pre-transplantation life) and categories 3 (current status), 4 (expectations before and after) and 6 (unexpected or conflicting situations) and, therefore, the frailty of these participants to find therapeutic support.

This is equivalent to saying that candidates for a kidney are unable to perceive all possibilities and specific needs that will emerge in the course of the transplantation process during the pre-renal transplant phase. They will need a consolidated interpersonal trust relationship and a bond of referral to use when the demands and needs emerge.

That is the nurses’ view, as demonstrated by the connections between all categories that picture the transplantation process. They have therapeutic resources that can be used during the nursing consultations with kidney transplant candidates, in coping with the transplantation process and in living with a transplanted kidney.

Although the chronic kidney failure is not cured after the renal transplant, i.e. drugs need to be taken, dietary restrictions/care continue and bodily care is needed, the possibility of a transplant is seen as something favorable, with mental repercussions.(11)

The inclusion of the family members and their understanding can contribute to the treatment and the adherence to the recommended therapeutic conducts. International experiences exist with information centers to clarify doubts.(12)

Evidence exists in the literature that the information and sensitization process of the patients who will undergo a renal transplant favors the overcoming of the limitations that are therapeutically recommended during the post-renal transplantation period, besides helping with adherence to the use of the immunosuppressive drugs, to the extent of reducing the occurrence of graft rejection.(13)

**Conclusion**

The nursing consultation during the pre-renal transplant period is important to incorporate the orientations into the experiences and behaviors of the transplanted patients in the course of the transplantation process and after the procedure.

**Collaborations**

Santos CM; Kirchmaier FM; Silveira WJ and Arreguy-Sena C declare that they contributed to the study conception, analysis, interpretation of the data, writing of the article, relevant critical review of the intellectual contents and final approval of the version for publication.

**References**

