Good Practices in Transitional Care: continuity of care for patients undergoing liver transplantation

Boas Práticas no Cuidado Transicional: continuidade da assistência ao paciente submetido ao transplante de fígado

Buenas Prácticas en la Atención Transicional: continuidad de la atención de los pacientes sometidos a trasplante de hígado

ABSTRACT

Objectives: to develop a guide of care recommendations for good practices in care transition for adult patients undergoing liver transplantation. Methods: a methodological study, based on the Appraisal of Guidelines for Research & Evaluation in the updated version, II. Care recommendations were sustained by conducting an integrative literature review and qualitative research. Results: from evidence, three topics emerged: Care Transition Planning; Health Education for Self-Care; Care Management. Each of the central topics has respective subtopics, totaling six, giving rise to 30 care recommendations. Concerning evaluators’ scores, in all domains the scores were higher than 90%. Final Considerations: the proposed guide assists professionals in conducting care transition in liver transplantation, ensuring greater safety for patients in continuity of home care.

Descriptors: Transplant; Liver Transplant; Continuity of Patient Care; Nursing; Nursing Education.
INTRODUCTION

In the last five years (2015-2019), in Brazil, there was a 22% increase in the number of adult liver transplantsations (THx) performed, going from 1,660 to 2,087. This awakens in the multidisciplinary staff the need to search for evidence that can help professionals to plan and develop a practice of excellence in their actions, providing safe and quality assistance\(^1\-2\).

THx is a complex surgical procedure that consists of removing the sick liver to place a healthy liver, which causes several clinical and hemodynamic changes in the immediate postoperative period. Specific care of the health staff in inpatient units, as well as thorough care for patients and families at home, are necessary to provide better quality of life, graft survival, minimization of injuries and post-transplant complications\(^3\).

During care transition between hospital discharge and readaptation to the new reality at home, patients and families may face complications related to THx. The most common complications refer to increased appetite, diarrhea or constipation, nausea and vomiting, anxiety, stress, emotional, neurological, pulmonary, respiratory, renal changes, hyperlipidemia, hypertension, skin cancer, and hyperglycemia. The most frequent complications involve rejections and opportunistic infections. Such situations, when not identified and treated in a timely manner, can lead patients to other comorbidities, frequent readmissions or even death\(^2\-4\).

In the daily adaptation to the new reality at home, adult patients experience different cares, which involve personal and environmental hygiene, use of immunosuppressants, glycemia check, use of insulin, control of vital signs, measurement of diuresis and others that may arise. Therefore, they experience uncertainties, fears and doubts regarding the execution of care, daily controls, signs and symptoms that may indicate complications, in addition to the overload of activities, stress and emotional impact in adapting to this new routine\(^5\).

Furthermore, it is important to highlight factors related to low adherence to treatment in care transition from hospital to home after THx. Studies point out personal risk factors, evidenced by problems or lack of social support, lack of information, use of several drugs simultaneously, diagnosis of mental disorder, use of alcohol and other drugs. It is necessary to emphasize the relevance that the educational process conducted by staff has at that moment, by making understandable continuity of treatment and the role of a support network in continuity of home care\(^6\-7\). Correct adherence to treatment is directed to planning care transition, educational interventions by staff, adoption of an individual therapeutic plan, alteration of the immunosuppressive regime, emotional and psychological support and support network strengthening\(^5\-6\).

Considering this setting, the multidisciplinary staff involved in care transition needs to be able to plan, organize and teach these people in order to prepare them to return home and present the new health reality, enabling patients and graft survival, in addition to minimizing the risk of complications that may arise at home. It is essential that the health staff is supported by guides, protocols, standard operating procedures and guidelines, which can support professionals in planning and continuing home care.

Moreover, these materials provide strong evidence regarding the implementation of health actions by professionals in activity of daily living, safety, effectiveness, quality and good practices in continuity of health care for these patients\(^8\).

Good practices direct care to promote safety, improvement and strategic actions aimed at impacting both the health system results and the care developed. Still, they ensure care anchored in knowledge, ethics, respect, safety and scientific support through evidence. In this perspective and considering the need for safety in care transition for patients undergoing THx, it is understood that good practices promote the best possible results in health care for these patients in the system\(^9\). In a safe care setting, good practices allow patients, families and a multidisciplinary staff to develop excellence in continuity of treatment at home for patients undergoing THx.

Due to the need for good practices in care transition for these patients and considering the scarcity of studies that portray the guidelines that must be shared with patients in this context, identified through two literature reviews\(^2\-10\), it is understood as fundamental to elaborate and use a guide of good practices in the planning of hospital discharge in THx capable of pointing out safe care actions in this process. The guide can assist staff in planning, organizing, communicating, interpersonal relationships with the health network, in addition to providing health education to adult patients undergoing THx, support for self-care, guidance on the flow of continuity of care, as well as guide these people towards safe and effective care. Authors point out that transition from hospital to home should involve planned health actions capable of ensuring continuity of care in the discharge process. Patient, family and health staff experience different moments of adjustments in their routines and patient care\(^11\-12\).

Given the above, the guiding question of this study was: what information supports the development of a guide for care recommendations for good practices for care transition to adult patients undergoing liver transplantation?

OBJECTIVES

To develop a guide of care recommendations for good practices in care transition for adult patients undergoing liver transplantation.

METHODS

Ethical aspects

This study was approved by the Research Ethics Committee with Human Beings of Universidade Federal de Santa Catarina. Participants received information about the research objectives, with a subsequent invitation to participate in the study. When expressing interest, they signed an Informed Consent Form.

Design, place of study and period

This is a methodological study aiming at developing a guide with recommendations for care for good practices, which was developed in two stages: first stage - guide’s content development - an integrative review to survey the scientific evidence and
a qualitative study; second step - guide assessment process with care recommendations - the Appraisal of Guidelines for Research & Evaluation (AGREE)\(^{13}\) was used in the updated version, II, as this is a method that aims to assess quality clinical guidelines and provide a methodological strategy for their development.

The integrative review was conducted between 2014 and 2019, in six stages\(^{10}\), in order to identify in national and international databases evidence capable of supporting the care recommendations in the guide for care transition. Subsequently, a qualitative research was developed between January and June 2019 with adult patients undergoing THx, seeking to identify patients’ doubts, difficulties and experiences after hospital discharge. Regarding care assessment development of care recommendations, through AGREE\(^{13}\), it was carried out by three professionals with expertise in the field of transplantation using the 23 key items, categorized in six domains, in which each domain refers to a dimension quality of the guideline, which are: Domain 1 - scope and purpose; Domain 2 - stakeholder involvement; Domain 3 - rigor of development; Domain 4 - clarity of presentation; Domain 5 - applicability; Domain 6 - editorial independence.

**Population and sample: inclusion and exclusion criteria**

For the integrative literature review, original research, protocols, guides, guidelines and discussion articles were included. Theses and dissertations, letters, editorials, studies that did not address the topic of interest were excluded.

The SCOPUS, Latin American and Caribbean Literature in Health Sciences (LILACS), Scientific Electronic Library Online (SciELO), Medical Literature Analysis and Retrieval System Online (MEDLINE), Cumulative Index to Nursing and Allied Health Literature (CINAHL), BDENF and Web of Science databases were defined.

A search strategy was elaborated for each database, with the help of a librarian, namely: ((“Liver Transplantation” OR “Liver Transplantations” OR “Hepatic Transplantation” OR “Hepatic Transplantations” OR “Liver Grafting” OR “Liver Diseases” OR “Liver Disease” OR “Liver Dysfunction” OR “Liver Dysfunctions”) AND (“Nursing Care” OR “Postoperative Care” OR “Postoperative Procedures” OR “Postoperative Procedure” OR “Patient Discharge” OR “Patient Discharges” OR “Discharge Planning” OR “Discharge Plannings” OR “Discharged from Hospital”))\(^{10}\).

As for the qualitative study, the target population focused on adult patients undergoing THx in a referral hospital in southern Brazil. Adult patients who underwent transplantation between the years 2012 and 2018 and who followed outpatient treatment with the multidisciplinary staff during the period of data collection were included. Patients who underwent transplantation in another hospital and received only outpatient care with staff were excluded.

Assessment of care recommendations was carried out by three professionals with expertise in the field of transplantation, as recommended by the methodological framework. Evaluators with experience in the transplant field for more than five years, who work in care practice or have worked with transplant and who have published articles related to the topic were selected. To identify professionals, keywords (transplant, liver transplant and liver transplant) were searched in the Lattes Curriculum platform.

After filtering the criteria, 38 professionals remained. Contact was made via email with eight participants; however, only three expressed the agreement to proceed with the assessment due to the deadline for return. Evaluators are one from northeastern, one from southeastern and one from southern Brazil.

**Study protocol**

The integrative literature review followed the steps: (1) Research question development; (2) Development of criteria for searching the literature; (3) Data collection; (4) Critical analysis of material obtained; (5) Careful assessment and interpretation of information obtained; (6) Presentation of results obtained\(^{10}\).

For qualitative research, data collection was conducted by the researchers themselves in a reserved space at a transplant center. Post-transplant patients are treated on the same day of the week by the multidisciplinary staff, as needed for follow-up. First, patients were invited to participate in the research by one of the researchers. When expressing interest, they signed an Informed Consent Form, and, subsequently, a date and time was scheduled according to the availability of participants to develop the interview.

The interviews were semi-structured, conducted at a transplant center itself, in a private place with privacy and an average time of 30 minutes. They were guided by the following questions: how was your postoperative liver transplant? What are the main health needs you had in your post-operative liver transplantation at the hospital and at home? What were the main doubts that arose in the discharge process? What were your main difficulties when returning home after hospital discharge? How are you experiencing post-transplant treatment? The interviews were recorded, transcribed and validated by participants. The printed transcript of the interview to participants was re-presented so that the data could be validated by them with corrections and additions, if they deemed necessary. Only after validation was the material analyzed. To identify participants, the letter P was used, followed by a number corresponding to the order of the interview (e.g., P1, P2, and so on).

To improve search for information, the researchers, after authorization from patients, participated in some consultations with the multidisciplinary staff and home visits, developing participant observation, seeking to identify patients’ health needs when returning home. For identification, “OV” was used for participant observation in home visits and “AO” for participant observation in an outpatient clinic.

The guide preparation with the care recommendations required three meetings with the researchers to form care actions. The information obtained was read carefully, giving the utmost attention to the development of ambivalences. It is noteworthy that two of the researchers who participated and coordinated this stage have extensive care experience with THx, in addition to developing research in this field for over 10 years; in addition, one of the researchers has been working for more than 18 years in care practice with THx.

The care recommendation assessment process was carried out as follows: initially, the manuscript containing care recommendations was sent to the selected evaluators, together with
the AGREE II evaluator’s manual\(^{(13)}\). The manual contains, in detail, each key item and domain that needs to be considered; in addition, it instructs the evaluators to determine a grade ranging from one (strongly disagree; key item and domain in question were not covered) to seven (strongly agree; key item and domain are in agreement). Also, it is possible to insert comments at the end of each key item and domain.

After assessing the six domains, the evaluators rated the overall quality of the guideline between 1 (lowest possible quality) and 7 (highest possible quality) and also indicated whether or not to recommend using the guideline (yes; yes, with modifications; not). It was also possible for the evaluators to describe global notes about the recommendations and then their signatures.

**Results**

The final sample of the integrative review consisted of 13 articles, the PubMed database (n = 7; 53.8%) had the largest number of articles and eight studies (61.5%) were classified with level of evidence 5. The main recommendations were for: warning signs for possible changes that may appear at home; recommendations for using medications - promoting self-management and adherence to treatment; daily activities and care at home - support and self-confidence and changes in body image; daily life - importance of a support network\(^{(10)}\).

Twenty patients participated in the research, with an average age of 55.4 years, 75% men, 70% married, 50% with completed high school and 25% retired. The average post-THx time was 996 days, and 40% had an indication for THx cirrhosis caused by the C virus.

Analysis of the material obtained from interviews and participant observations guided the formation of four categories: discharge planning; health education; self-care; follow-up with the multidisciplinary health staff, as shown in Figure 1.

**Figure 1** – Synthesis of the categories elaborated from the interviews and participant observations, Florianópolis Santa Catarina, Brazil, 2020

With regard to the elaboration of a good practice guide based on care recommendations, Chart 1 shows the union of the information obtained from the literature review and qualitative study; they supported the elaboration of care recommendations for the *Health Education for Self-Care* axis. In this chart, it is possible to notice that, for the formation of this axis, in addition to the evidence, the content of two categories of the qualitative study was used to provide greater support and robustness to this care axis.

Due to a large volume of information, it was decided to present only one chart as an example. The first column represents the evidence obtained in the literature, while the second column presents the respective patients’ statements and participant observation, supporting the axis formation and their respective care recommendations.

As for the recommendations, it was decided to present in the chart format (Chart 2) the care guide for good practices in transition from hospital discharge of adult patients undergoing THx. The guide and its recommendations have three central axes, obtained based on the recommendations and evidence found in the study: *Care Transition Planning; Health Education for Self-Care; Care Management*. Each of the central themes presents respective subtopics and care recommendations.
Regarding the guide quality assessment according to AGREE II, the highest score (100%) was obtained in Domain 1 as a result, i.e., all evaluators fully agreed with the fulfillment of each item in this domain. Domain 5 also had the lowest score, 91.6%. The other domains obtained the following scores: Domain 2, 96.3%; Domain 3, 93%; Domain 4, 98.1%; Domain 6, 97.2%.

It is noteworthy that even the lowest score remained above 90%, evidencing the high quality of the elaboration of the recommendations. Still, all indexes indicate absence of critical flaws observed by evaluators with experience and expertise in the field of transplantations, proving their high potential to impact care practice in this setting.

Finally, two of the evaluators registered the index 7 as a global assessment, indicating that the entire guide has the highest possible quality; an appraiser registered the index 6. There was no low index reported by the appraisers. Along with this, it is highlighted that the three evaluators recommended using the care recommendation guide for good practices in transition from hospital discharge of adult patients submitted to THx, describing that it is a tool that will support and strengthen the multidisciplinary staff in care transition with liver transplant recipients and family.

**DISCUSSION**

THx is one of the most complex procedures in medication and involves significant changes in the daily lives of those involved. In this perspective, the findings point out that patients and families must be inserted early into the new reality of transplant, i.e., when they are still on the waiting list, since, after the inclusion on the list, patients have no date and neither time to perform the procedure. Therefore, it is essential that the health staff gradually make the information feasible so that patients and family adapt to the new reality.

During analysis of the study’s findings, both in terms of evidence and patient participation and participant observation, it is clear that the health staff becomes a promoter and responsible for safe care, especially with regard to some care to be developed at home. In all the information bases obtained, some difficulties faced, as well as some care needs, stood out, such as the use of immunosuppressants, daily care, glycemia check and insulin application. It is noteworthy that many patients, prior to transplantation, did not have the need to use insulin, nor did they need to develop health care at home in relation to glycemic control. However, after THx, there is a need for this care to be performed, in addition to daily caution to verify that the values obtained in the measurements are ideal.

**Chart 1** – Presentation of the data obtained in the study for the formulation of recommendations in the Health Education for Self-Care axis

<table>
<thead>
<tr>
<th>Evidence (integrative review)</th>
<th>Category: Self-care</th>
<th>Category: Health Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>At home, patients present increased appetite, diarrhea or constipation, nausea and vomiting, changes in body image, body sensation, sexuality, decreased libido, altered sleep pattern and wakefulness, and lower limbs edema (Author – level of evidence: V).</td>
<td>Patient</td>
<td>It’s a lot of medication time; it has all kinds of control, food restriction, it’s a lot. It was very difficult to know how to do all this. (Patient 3)</td>
</tr>
<tr>
<td>Daily control should be instructed to patients in hospital discharge for successful transplantation and early detection of adverse events (Author – level of evidence: V).</td>
<td>Participant note</td>
<td>The greatest perceived fragility was with mouth hygiene. They have doubts about the frequency and sequence of brushing (OV**).</td>
</tr>
<tr>
<td>Clarification on complications to avoid injuries (Author – level of evidence: IV).</td>
<td>Nurses should provide information to patients and family members about status of employment and possible problems after transplantation (Author – level of evidence: V).</td>
<td>Blood glucose at home was being checked at the wrong times. There was a situation where the device was not calibrated (OV).</td>
</tr>
<tr>
<td>Transplant patients may have pre-existing Diabetes Mellitus. For this, it is necessary to teach patients and family to perform the correct control of blood glucose, as well as the application of insulin (Author – level of evidence: V).</td>
<td>The main nursing diagnoses for hospital discharge from liver transplantation are Risk for infection, Risk for unstable blood glucose and Risk for impaired liver function (Author – level of evidence: V).</td>
<td>It was possible to notice little practice of patients regarding using blood glucose apparatus and the application of insulin (OV).</td>
</tr>
<tr>
<td>Transition to home is a complex moment, with the increased risk of medication errors due to incorrect or incomplete transfer of information, besides involving multiple actions, such as multidisciplinary and interinstitutional action (Author – level of evidence: V).</td>
<td>On the return to the outpatient clinic, some controls were not recorded (OV**).</td>
<td></td>
</tr>
</tbody>
</table>

Note: *OV refers to participant observation in the home visit; **OA refers to participant observation in the outpatient clinic.
<table>
<thead>
<tr>
<th>CARE TRANSITION PLANNING</th>
<th>HEALTH EDUCATION FOR SELF-CARE</th>
<th>CARE MANAGEMENT</th>
</tr>
</thead>
</table>
| **Support network training:** | **CAUTION:** To start preparing patients for home activities soon after patients’ return to the hospitalization unit, after patients are not in pain and able to listen to the guidelines. | **Patient:**  
- Patients should check daily if all care was performed in the morning, afternoon and evening. |
| - Identify in the family group with greater affinity to develop home care.  
- Propose to organize with the family group of caregivers.  
- Organize with support network and social worker the place to receive patients after discharge;  
- Promote tights of family members, adjusting the relationship with the family.  
- Organize support network according to each patient’s needs. | **Alert for signs of complications:**  
- Clarify to patients about the possible complications (most common) signs and symptoms, such as preventing them, time that these can last and what conduct to adopt in the face of such a situation.  
- Point out to patients which are the most common possible complications to arise at home (especially rejection and opportunistic infections), signs and symptoms of them, how to prevent them and what behaviors to adopt in face of such situation. | **Multidisciplinary transplant staff:**  
- Make contact by technological means checking if the care is being performed according to guidance.  
- Make home visit if possible. |
| **Approach with primary care staff (counter-referral):** | **Daily care activities - Medications:**  
- Create an enlarged table that provides guidance on times, doses and adverse effects. Indicate differently in the table which are the immunosuppressants. | **Primary Care Staff:**  
- Make weekly visits and promote adjustment in care if necessary. |
| - Make contact with patients’ referral unit, passing all patient information: social data, clinical situation, care needs, need for materials and medications.  
- Forward via online prescriptions of medications and materials;  
- Agree with this staff date and time so that a family member can pick up materials and medications.  
- Schedule with staff the date of home visit that must be carried out by them in the first week after discharge. | **Control and daily care:**  
- Develop strategies to teach the development of hemoglycotest and insulin application, as well as the times to be performed and normal values.  
- Encourage the performance of this care even during hospitalization so that staff can manage.  
- Teach in detail how to check vital signs and how to control temperature.  
- Teach how to measure and store diuresis.  
- Explain to patients how they should watch for warning signs in the body for edema, itching, blemishes and others.  
- Develop an individual care plan for each patient regarding their own hygiene. Observation: It is necessary to adapt this plan according to patients’ social conditions, educational level and performance capacity. | **Daily care activities - Food consumption:**  
- Raise awareness and teach about the need to consume only cooked foods.  
- Explain clearly and simply how food should be sanitized when arriving from shopping as well as how to proceed with the preparation and how to store.  
- Explain about fluid intake and adequate daily quantity. |
| **Referral of the special medication process (immunosuppressants):** | **Development of physical activities:**  
- Develop a plan of daily physical activities.  
- Show patients what daily activities they can and should do at home. | **Socialization with support network:**  
- Explain in detail, in a simple way, that in the first months the orientation is that there is not contact with many different people. However, they may have brief contacts, keeping their distance and in a ventilated place. |
| - Request with medical staff the completion of the process, prescriptions, forwarding to the health network.  
- Organize immunosuppressants for home use at doses for one month.  
- Teach where and when the family member will withdraw the immunosuppressive medications. | **Daily care activities:**  
- Explain how to measure and store diuresis.  
- Raise awareness and teach about the need to consume only cooked foods.  
- Explain clearly and simply how food should be sanitized when arriving from shopping as well as how to proceed with the preparation and how to store.  
- Explain about fluid intake and adequate daily quantity. | |

Authors point out the importance and responsibility of the health staff to develop strategies that can support and support these patients on their return to home. Furthermore, it is these professionals who have knowledge and specifics about home care to be performed and managed by patients and family, with support from Primary Health Care. Understanding patients’ health needs in the residential environment is important. THx is a highly complex procedure and; in addition, in the home environment, patients are still subject to complications, especially if treatment is not properly adhered to, affecting graft survival. In this study, in both searches for information, both in the integrative review and in the qualitative research, the data direct the development of complex home care, at the same time that they point out patients’ fragility before this new setting. Although the information obtained reveals the multidisciplinary staff’s effort in organizing health education, self-care and follow-up after hospital discharge, there are still doubts, uncertainties, insecurities, and fear before a new routine. Considering the findings and seeking to develop good practices in care transition, the recommendations guide points out three axes of care with their due recommendations.

In the Care Transition Planning axis, the recommendations revealed the importance of staff organizing support network formation prior to hospital discharge. When returning home, the presence of close people who can help this patient is essential. Even if he is prepared for self-care, there are activities that cannot be performed by him in the first days. This axis proposes to bring patients and family closer to the Primary Care network through counter-referral and support network (family, friends, neighbors). However, it should be noted that the multidisciplinary tertiary care staff has knowledge of THx, history of patients, in addition to the care needs to be performed at home. Thus, it is necessary that they make contact with other Primary Care professionals to teach and provide all care to be developed at home so that this staff can support patients and families.

Also, in this regard, care recommendations continue with the organization of immunosuppressants for discharge. This emerges as an important and indispensable care for the safety of patients and continuity of treatment. The use of immunosuppressants must be continuous, as incorrect doses or failure to use implies graft loss. Authors point out nurses’ commitment and responsibility in managing disposition and distribution of these
medications to THx patients, in addition to the pharmacist, who is committed to ensuring quality of care and patient safety in using medications. Immunosuppressants are essential to avoid rejection; however, they have side effects that can also aggravate health. Thus, the care recommendations in the guide point to the importance of patients receiving these drugs as soon as possible so that there are no insufficient doses or even a lack of medication during treatment.

In the Health Education for Self-Care axis, the findings show the need to insert patients into their self-care as soon as possible. Both in the information obtained in the literature review and in the qualitative research, there are data that reveal that there are several care to be developed at home and that there is a need for patients to assist caregivers and take on these activities as soon as possible, since the caregiver does not will be present at all times at home. Still, it is noteworthy that in the post-transplantation, complications may arise; therefore, patients need to be aware of the warning signs and symptoms for health care to be performed with a view to organ maintenance, quality of life and graft survival.

In this sense, this axis of care shows that patients need to be able and safe to recognize signs of health problems, in addition to being able to develop home care. Thus, it is understood that effective health education enables patients return to home, while promoting the empowerment of patients, families and support network for the execution of care. Other authors corroborate this axis by pointing out that self-care enables patients to preserve health, prevent diseases, perform self-management, self-monitoring, symptom management, thus allowing them to manage their own care(24-26). When patients and their support network understand the new post-transplant reality, they adhere better to treatment and cooperate effectively. These actions provide satisfactory quality of life, graft survival, less risk of complications and frequent readmissions(26-28).

From the perspective of nurses’ assistance, this axis of care highlights professionals, since health education is one of nurses’ skills that needs to be trained and updated to teach after transplant about the signs and symptoms of rejection and infections, possible complications and pharmacological interactions. It is verified the importance of the performance of this professional to manage the care of transplant patients, favoring quality of life through safe and effective information(29-30).

In the Health Education for Self-Care axis, the recommendations point to the importance of staff paying attention to teach, explain and show how each home care activity should be conducted. Patients need to leave the hospital knowing how to develop this care step by step, and, for this, staff needs to show patients how to do it and in what sequence, requesting that, after the guidelines, they develop the care. In this way, it will be possible to make sure that care is being performed correctly, providing security for those who perform it and for those who need to manage remotely after discharge. The development of this home care is one of the main factors of fear and concern of patients, which can lead to low adherence to treatment(2,5-7).

In this health education setting, the effective participation of several professionals stands out, such as physician, pharmacist, nutritionist, social worker and psychologist. These professionals, together with nurses, develop contributions for patients and family in coping with home care(8-21). Nurses, integrating the multidisciplinary staff, often instinctively take over the leadership role in this process through verbal and non-verbal communication skills, aiming at comprehensive and cohesive care for patients. These professional also supports building strategies to provide patients measures for a healthy lifestyle and control of functions(21).

Finally, the Care Management axis brings the obligation and the duty of home care management by both patients, support network, THx multidisciplinary staff and the Primary Care staff. Everyone needs to speak the same language when talking about post-THx home care. The involvement of the multidisciplinary and the Primary Care staffs is directly related to good practices and patient safety, as it relates to guidelines based on scientific consensus that ensure effective follow-up by qualified professionals at the discharge of post-transplant patients, minimizing the negative events that can occur due to discontinuity of care(21).

To develop care recommendations in this field, the possibility of understanding that there are doubts both by patients and by their support network regarding food consumption and the development of physical activities was considered. In view of this setting, the care recommendations in this axis point to the importance of establishing plans, so that, with safety, food hygiene care, menu options and choice of physical activities with limits become factors that contribute to graft and quality of life maintenance. Healthy living habits, combined with a rehabilitation plan, provide effective improvement in post-transplantation(12,16-17).

However, for there to be an adequate and effective home care plan, there must be an interconnection between the different levels of health care (primary, secondary, and tertiary care), which belong to the Health Care Networks (RAS – Rede de Atenção à Saúde).

Through counter-referral, patients are referred resolutely by the RAS, aiming at continuity of care in the home environment and making it more effective and comprehensive(31). For continuity of care, it is necessary that everyone involved has the same knowledge of what activities and care should be performed at home. If there are divergences in the guidelines provided by health professionals, especially at different levels of care, there may be distrust of patients and low adherence to treatment. Ensuring that care is performed correctly at home is challenging for the health staff. Thus, it is understood that the Care Management axis brings implicit recommendations that can guide everyone involved in care transition, since they propose standardized language. However, it is worth highlighting the findings of other studies that point out that it is necessary, prudent and important that the RAS staff is engaged, involved and committed in all spheres of health care. Only then will self-care and adherence to treatment be effective(6,12-19).

Concerning the care recommendation assessment in this guide, all domains had scores greater than 90%, added to the overall assessment record of the three evaluators having remained between 6 and 7, recommending using the guide for good practices in care transition from discharge treatment of adult patients undergoing THx.

This recommendations guide is considered to meet the criteria of the established method, supporting good health care practices with patients undergoing THx. Still, the validity of these
evaluated care recommendations stands out, since other studies have shown score results between 70% and 100%[34-35]. Thus, it is understood that such a care tool will support and strengthen the multidisciplinary staff in care transition with liver transplant recipients and family.

It should be noted that there was no funding for the development of this study as well as the authors declare that there is no conflict of interest. Furthermore, for the applicability of this research in the multidisciplinary staff’s practice with regard to transition from hospital to home care, there is no need for extra financial resources. It is advised, however, that the multidisciplinary staff, having the care recommendations in hand, can promote discussions in the work environment to implement the recommendations.

The recommendations contained in the guide to good practices in care transition from hospital discharge of adult patients undergoing liver transplantation will need to be updated five years after the publication of this study, considering that scientific knowledge is dynamic. Therefore, future studies that seek updated care recommendations and corresponding to the new reality that will be experienced in the THx setting are suggested.

Study limitations

One of the limiting factors in the search for information in the literature was the low levels of evidence. Faced with this, there was difficulty in formulating strong evidence-based care recommendations. Another limitation pointed out in the study is related to the difficulty in organizing conversations with the institution’s multidisciplinary staff to discuss the recommendations and thus apply the adjustments.

Contributions to health

Access to the guide for care recommendations for good practices in care transition for adult patients undergoing liver transplantation by professionals from the THx multidisciplinary staff and the primary care staff makes it possible to promote care transition safely and effectively, due to all professionals follow the same language and evidence. Along with this, the contributions for patients that will receive sequential, clear and simple guidance and information are highlighted, minimizing the risk of adverse events, promoting quality of life and graft survival. Still, it is important to point out that good practices lead the health staff to develop evidence-based care.

FINAL CONSIDERATIONS

The study aimed to develop a guide for care recommendations for good practices in care transition for patients undergoing liver transplantation. To consolidate this care tool, information was obtained through evidence, patient participation and participant observation by researchers.

The findings reveal the indispensability of the multidisciplinary staff to carefully organize and plan care transition. In this organization, staff must pay attention to prepare patients’ support network, carry out counter-referral with Primary Care, in addition to providing all materials, medications, and other supplies that may be needed at home. Still, the recommendations massively emphasize the obligation for staff to present, teach and show patients how each care should be performed at home, in addition to ensuring that they know how to identify signs and symptoms of complications. Only then will patients be able to develop self-care.

Staff is protected from the need to plan the physical and home activities that patients will be able to perform. It is evident that, in the discharge process, information must be provided to patients undergoing THx and their families. However, in addition to the guidelines, staff, together with patients, needs to manage and adapt care actions in order to certify adherence to treatment and continuity of this treatment, seeking to maintain quality of life and graft survival.

Finally, it is highlighted that the elaboration of care recommendations, following the AGREE II methodological framework, supports and subsidizes the multidisciplinary staff to act with higher quality, since it supports care actions based on scientific evidence developed with rigor and validated by professionals with expertise in the field, bringing safety to patients, central figure of health care.

REFERENCES


