

Transitional Care in Patients with Heart Failure: A Concept Analysis Using Rogers' Evolutionary Approach

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Objective: The purpose of this study was to clarify the concept of transitional care in patients with heart failure.

Background: Transitional care is increasingly being applied in patients with heart failure, but the concept of transitional care in heart failure patients is not uniform and confused with other definitions, which limits further research and practice on transitional care for these patients.

Design: Rodgers' evolutionary concept analysis.

Methods: A comprehensive literature search was conducted using the PUBMED, EMBASE, EBSCO, Chinese Biological Medicine (CBM), CNKI, and WANFANG databases (up to January 26, 2023). We used Rodgers' evolutionary concept analysis method to identify related concepts, attributes, antecedents, and consequences of transitional care in patients with heart failure.

Results: A total of 33 articles were included. The following attributes belonging to transitional care in patients with heart failure were extracted from the literature: self-care, multidisciplinary collaboration, and information transmission. The antecedents were patients' health status, the health literacy of patients and caregivers, the role functions of the main implementer and social and medical resources. Consequences were separated into two categories: patient-centered health outcomes (all-cause mortality, health-related quality of life, discharge preparedness, self-care behaviors, satisfaction of patients) and healthcare utilization outcomes (hospital readmission, length of hospital stay, emergency department visits).

Conclusion: This study found that transitional care in heart failure patients is a systemic care process during a vulnerable period that improves patient self-management and coordination between hospital resources and social support systems for continuous management to promote smooth patient transitions between different locations. This concept analysis will inform healthcare providers in designing evidence-based interventions and quality improvement strategies to ensure that transition processes lead to desired outcomes. In addition, this study will also be helpful for developing specific assessment tools to identify patients with HF who need transitional care.

Keywords: concept analysis, heart failure, transitional care, self care, collaboration

Introduction

Heart failure (HF) is a complex clinical syndrome caused by a significant decrease in cardiac output volume due to the structural or functional impairment of ventricular filling or the ejection of blood, which cannot meet the metabolic requirements of the body.¹ Similar to most patients with chronic diseases, patients with heart failure typically have multiple comorbidities, complex medication regimens and limited self-management skills. Therefore, HF is characterized by a high risk of morbidity, a high risk of deterioration, a high risk of mortality and the highest risk of early readmission. It has been reported that approximately 64.3 million people worldwide suffer from heart failure,² and the readmission rates at 30 days and 6 months among HF patients are as high as 25% and 50%, respectively. Within five years of

diagnosis, only one in five patients with HF is still alive, and the expenditure of treatment is US \$108 billion yearly.³ It is well known that rehospitalization imposes a significant burden on the medical system and individuals; however, recurrent hospitalization due to chronic heart failure (CHF) has become an important epidemiological feature of the disease.^{4,5} A total of 75% of early-phase readmissions are preventable by reporting, as they mainly result from incomplete hospital management and fragmented care, for instance, the lack of physician adherence to guidelines, patient unawareness of CHF symptom exacerbations, nonadherence to medical therapy and exercise rehabilitation, in addition to the lack of detailed discharge records and suggestions for primary care physicians to develop follow-up schemes.^{6,7} Therefore, it is an urgent problem to reduce the readmission rate of patients with heart failure worldwide.

Transitional care is a broad range of time-limited services designed to ensure continuity of care and facilitate the smooth transfer of vulnerable individuals affected by any change in care settings or caregivers from one setting to another.⁸ The emergence of transitional care is an innovative solution designed to address the negative impact of the frequent use of health resources and to improve the integration and continuity of all stages of care for chronic disease patients. At present, transitional care interventions are widely known in the US, Japan and Hong Kong and have been shown to reduce emergency department visits, readmissions and mortality in HF patients. With the increasing application in patients with heart failure, the nature and practice of transitional care is evolving and enriching; nevertheless, a standardized definition has not yet been established, and there is no consensus on how long the transitional care period should last and no standard classification scheme for transitional care services, which limits further research on transitional care in patients with heart failure.

This study used Rodgers' evolutionary approach to clarify the concept of transitional care by analyzing its application in different studies related to HF to design evidence-based interventions and quality improvement strategies to ensure that transition processes produce desired outcomes.

Methods

Rodgers' evolutionary conceptual analysis⁹ was selected to clarify the concept of transitional care for patients with heart failure. Based on the classic conceptual analysis of Walker and Avant, this method (Box 1) improved the representativeness of literature selected for analysis through systematic retrieval and analyzed the development and changes of specific concepts over time.

Data Sources

We searched the PUBMED, EMBASE, EBSCO, Chinese Biological Medicine (CBM), CNKI, and WANFANG databases to identify relevant reports and manually searched articles from the reference lists of retrieved articles to assemble a comprehensive collection of records about transitional care in patients with HF (up to January 26, 2023). The search terms used were "heart failure", "heart failure, diastolic", "heart failure, systolic", "cardiac failure", "chronic heart failure", "congestive heart failure", "discharge planning", "transitional care", "patient discharge", "continuity of patient care", and "patient transfer" (Supplementary Material 1). Inclusion criteria were as follows: (1) the subjects were patients with heart failure; (2) the study was related to the concept's attributes, evolution, antecedents, consequences and relevance to the topic; and (3) studies published in English and Chinese only. Exclusion criteria were as follows: (1) full text was not available; (2) gray literature, texts published in non-peer-reviewed journals, letters to the editor and

Box 1 Rodgers' Evolutionary Method

1. Identify the concept of interest and associated expressions
2. Identify and select an appropriate realm (setting and sample) for data collection
3. Collect data relevant to the attributes of the concept, the context basis of the concept including interdisciplinary, sociocultural, and temporal (along with surrogate terms, references, antecedents, and consequential occurrences) variations
4. Analyze data regarding the above characteristics of the concept
5. Identify an exemplar of the concept, if appropriate
6. Identify implications, hypotheses and implications for further development of the concept

study protocols; (3) studies that did not have predischARGE and postdischarge interventions for HF patients; and (4) patients who did not return to the home after discharge.

We retrieved 3857 records through database searches, and two researchers independently reviewed the studies. After removing duplicates, we found 3620 articles, 3524 of which we excluded by reviewing the title and abstract using general criteria, and 96 full-text articles were assessed for eligibility. We then excluded 65 studies for the following reasons: studies including subjects who were not heart failure patients (n=5); studies in which the results were presented as abstracts (n=12); study protocols (n=3); studies for which the full-text was not available (n=1); articles published in French (n=1); articles that were not relevant to the topic (n=20); articles that were not based on predischARGE and postdischarge interventions (n=17); studies in which the patients did not return to home after discharge (n=3); studies with incomplete descriptions of interventions (n=1); and articles that were not peer-reviewed (n=2). Two articles were obtained from the reference lists of retrieved records. We subjected the resulting 33 articles to concept analysis. [Figure 1](#) shows the specific flow chart. For reasons for the final exclusion of 65 studies, see [Supplementary Material 2](#).

Results

Evolving Definition and Use of the Concept

The term “transitional” has as an adjective meaning: marked by transition: involving, providing, or consisting of a passage, movement, or change from one state, condition, subject, place, etc., to another.¹⁰ In the PubMed subject word tree structure, “transitional care” is the subjunctive of “continuity of patient care”, meaning health care provided during a transition to a different mode of care.¹¹ In 1947, Forest Harriet et al at the University of Pennsylvania initially explored establishing cooperation between hospitals and communities and made plans for the early transfer of patients from hospitals to communities or homes for continued nursing care. In this research, they underlined referral as a continuation of nursing care.¹² Subsequently, discharge planning was advocated routinely. Discharge planning used to be seen as something that should be done at a certain point in time while a patient was in hospital. The consideration of the patient as a whole and social health care management paid attention to the entire life cycle of nursing to expand the connotation of “discharge planning”. In this view, the definition of transitional care evolved from discharge planning. In 1966, “transitional care” first appeared in the literature, which described the transitional care nursery provided by the hospital for newborns to adjust to a new extrauterine environment.¹³ In the 1980s, “transitional care services” emerged, which served to catch post acute patients who were being discharged more quickly (who were possibly sicker), were intended to keep patients from entering an acute care facility or to return to the community; partly, the connotation of transitional care services was broadened by traditional discharge planning to push the early discharge of patients.¹⁴ Brooten et al initially used the transitional care model, which combined a discharge plan with routine home follow-up care guided by nurse specialists for low birth weight infants, and then gradually used it in other vulnerable groups.¹⁵ In 1995, Rich et al used a nurse-conducted multidisciplinary intervention that included comprehensive education for patients and family, early discharge planning, individual dietary and medical instructions, social-service counseling and intensive follow-up after discharge.¹⁶ To our knowledge, this was the first time that transitional care was used in heart failure patients. The vulnerability of the intervention population and the complexity of the interventions were features of transitional care in this report and resulted in more favorable outcomes. In 2002, Harrison and her colleagues designed a model of hospital-to-home transition that was implemented by the usual nurse providers rather than a clinical nurse specialist, and the defined characteristics of transitional care in heart failure patients were the use of a structured, comprehensive, evidenced-based project for counseling and educating and cooperation between the hospital and home nurses and patients to improve self-management and promote health.¹⁷ In 2004, Naylor et al described a “transitional care intervention” in heart failure patients, including advanced practice nurse (APN)-directed discharge planning and a routine home follow-up protocol.¹⁸ The unique feature of this model was that in hospital and in the home, the same APN developed and applied personal discharge planning. Of the transitional care interventions reviewed, most began immediately after admission and were maintained for a period of time after discharge, including early assessment after admission, patient education and consultation, medication reconciliation, early follow-up after discharge and handoff to posthospital providers.¹⁹ Although in previous research, case management was applied, the difference between chronic

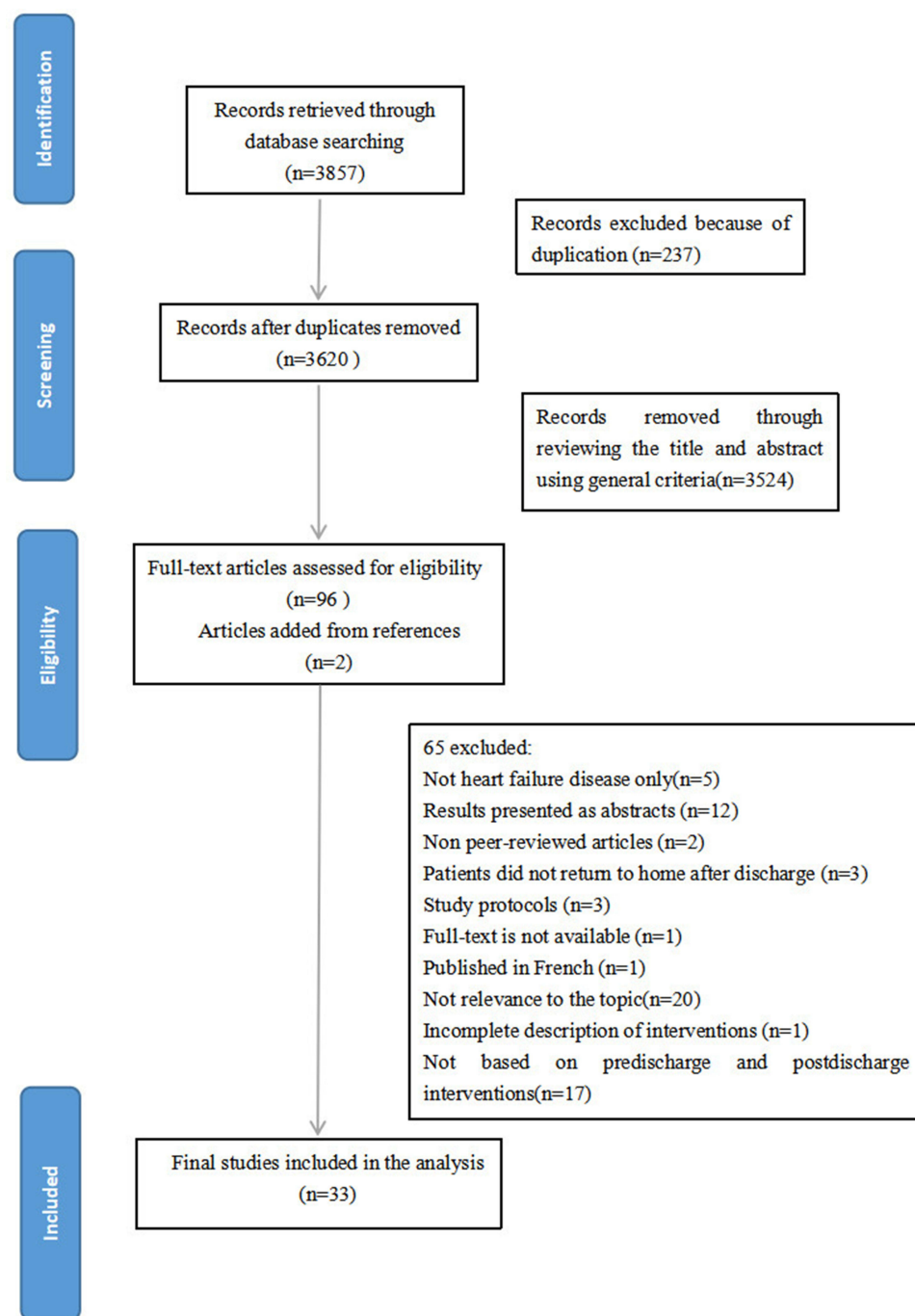


Figure 1 Flow diagram for identification of studies for inclusion in concept analysis.

disease management and transitional care was that transitional care focused on the vulnerable period and a common theme related to the prevention of readmission. Currently, some interventions of transitional care in HF patients stress postdischarge management, but assessing and identifying patients at risk at admission and establishing a comprehensive protocol is essential.

Attributes

Attributes are characteristics of a concept that allow people to discern if the concept is present in a situation.⁹ It is important to recognize the key attributes of a concept to distinguish it from other concepts.

Self-Care

Due to the long disease course and complex complications, the self-care ability of HF patients plays an important role in the process of disease progression. It is emphasized that the final foothold of the transitional care operation mechanism in patients with heart failure is to improve their self-management skills. Regardless of which transitional care service mode is implemented, the goal is to increase a patient's understanding of their condition and its links to self-care and promote the involvement of other people in this self-care to enhance compliance with drug therapy, symptom management, dietary care and exercise rehabilitation.^{20,21} Hoover and his colleagues suggested that²² early recognition of significant changes in health status and appropriate responses to symptoms by HF patients are crucial to successfully reducing HF readmissions. Yu et al described that²³ the key element affecting the implementation of transitional care services is self-management in different cultural contexts, and health-related knowledge increases the likelihood of adherence to treatment to improve the health outcomes of individuals through self-efficacy.

Multidisciplinary Collaboration

Multiprofessional teamwork is one of the common themes from existing transitional-care models applied to patients with HF summarized by Albert and her colleagues.²⁴ It is necessary for patients to implement comprehensive multidisciplinary care plans from the beginning to the end of their healthcare journey. Transitions are highly vulnerable episodes, and transitional care for patients with HF is a focused, coordinated and integrated process, which makes it difficult for a single provider alone to offer care; interdisciplinary cooperation is most effective.²⁵ Multiple health care providers, such as physicians, nurses, pharmacists, physiotherapists, dieticians, and social workers, encourage patients and their caregivers to work cohesively to achieve coordinated high-quality care.

Information Transmission

Information transmission in transitional care includes education, communication and collaboration. HF education is tailored and consists of group or individual counseling, skills training, discharge guidance and follow-up arrangements. It is very urgent for HF patients to understand three questions²⁶ at discharge: "What is my diagnosis? What is my medication? When and where is my next appointment"? A coordinator acts as "the hub" in a multidisciplinary team by communicating and collaborating with patients, caregivers and other health care providers, in addition to a link between the hospital and community to promote safe and early patient discharge. During the transition from hospital to home, effective communication is essential to relieve HF patients' anxieties and worries regarding sudden medical resource removal. To ensure complete and clear information transmission during referral, a checklist or detailed transfer letter is a useful tool for primary care physicians receiving useful discharge summaries to develop subsequent treatment and early follow-up schemes.

Antecedents

Antecedents are events or phenomena that exist generally for the concept to occur.⁹ Transitional care in patients with HF is preceded by (1) patients' health status; (2) the health literacy of patients and caregivers; (3) the role functions of the main implementer; and (4) social and medical resources.

Patients' Health Status

Studies have shown that the decision to implement transitional care for patients with heart failure depends on the patients' health status.¹⁹ Vedel and Khanassov indicated that recurrent attacks of CHF result in frequent use of health care services,⁷ and Hoover et al described that older adult patients with complex chronic conditions tend to be repeatedly readmitted and experience fragmented care.²² Therefore, it is emphasized that patients with complex treatment procedures and readmission risks are screened within 24 hours of admission. Elderly patients (≥ 65 years of age) and those with comorbidities, polypharmacy, highest NYHA grade, previous readmission and acquired weakness are the right population.^{27,28} Psychological discharge readiness is also helpful for patients with HF who are transitioning from the hospital to home, meaning that the patients' own perspectives of discharge are consistent with those of physicians.

The Health Literacy of Patients and Caregivers

Health literacy is defined as the degree to which individuals have the capacity to obtain, process, and understand basic health information and services needed to make appropriate health decisions.²⁹ Evangelista and her colleagues reported that inadequate health literacy is associated with a lack of adherence to discharge instructions, poor medication compliance, and increased readmission and mortality.³⁰ Thus, developing core educational content for heart failure patients in transitional care should carefully consider the patient/family's cognitive level, education level, lifestyle, values, habits, priorities, and the health expectations.

The Role Functions of the Main Implementer

Nurses with multiple roles are important in the care of patients with HF. They assume the roles of estimator, educator, coordinator, practitioner and evaluator, which make them ideal coleaders in a multidisciplinary transitional care team.³¹ Tingley et al reported that nurse-driven high-intensity transitional care interventions were identified as the most effective in reducing short-term readmission.²⁵ As pharmacists have the unique ability to provide medication reconciliation and medication education, their core role in improving transitional care services has also been investigated in patients with HF.³² Garnier and her colleagues described that extending pharmacist's role from professional guidance to the delivery of continuity of care reduces the morbidity and mortality associated with heart failure.²⁶ Patients may feel ashamed that they cannot afford their medications. At this time, a sense of responsibility, empathy, and a nonjudgmental approach from the main executor are critical.³³

Social and Medical Resources

The requirement for a decreased readmission rate and reduction in cost for HF patients push health care professionals to think about how to deliver the highest quality of care in the most efficient way. Naylor et al summarized that services for older adults living longer with complex health and social needs remain fragmented, expensive and occasionally inappropriate.³⁴ A variety of transitional care programs and services have been established. Moreover, prior studies have suggested that patients and caregivers attribute failed transitions to abandonment by the health care system after discharge and barriers such as lack of transportation and home care expense deficiency.³⁵ Allen et al suggested that more attention should be paid to low socioeconomic populations during the post-hospital transition process.²⁷ In addition to the component of transitional care involving follow-up and management by primary care physicians, community resources are considerable. In addition, some medical equipment, such as implantable cardioverter defibrillators and communication facilities, may be used as secondary prevention in patients with HF, facilitating the implementation of safe transitional care.¹

Consequences

Consequences describe the situations that follow the "occurrence" of the concept.³⁶ Outcomes following transitional care are related to (1) patient-centered health outcomes and (2) healthcare utilization outcomes. The consequences extracted from the literature are listed in Table 1, along with the attributes and antecedents.

Patient-Centered Health Outcomes

Li and her colleagues reported that nurse-led hospital-to-home transitional care interventions can reduce the risk of all-cause mortality, improve health-related quality of life, and enhance self-care behaviors in patients with heart failure.⁴⁹ Moreover, transitional care improves medication knowledge, discharge preparedness and the satisfaction of patients.^{19,39}

Healthcare Utilization Outcomes

Hospital readmission was the most common indicator analyzed in many articles. Subsequently, the length of hospital stay and the number of emergency department visits were decreased, and transitional care also showed cost-effectiveness.^{7,46,50,52} Ota and colleagues assessed 30-day and 90-day readmission rates in HF patients before and after enrollment in the transitional care program, and showed that the program was successful in reducing the number of readmissions regardless of causes.⁵³ Atienza et al reported that the transitional care intervention has potential capacity to reduce management costs, the overall cost of care was reduced in €2063 per patient in the transitional care group.⁴⁶

Table 1 Characteristics of the Included Studies

| Author (Year)/Country | Attributes | Antecedents | Consequences |
|--|--|---|--|
| Yu (2015) ²³ Hong Kong, China | Self-care enhancement, a multidisciplinary team | Cultural difference, contextual difference, community care service, health status | EFS, ACR, mortality, LOHS, HRQOL, self-care |
| Hoover (2017) ²² USA | Interdisciplinary, improve self-management skills | Complex chronic conditions, fragmented care | RR, cost savings, self-management |
| Garnier (2018) ²⁶ Switzerland | A multidisciplinary transition plan, self-monitoring, a message, hotline | Local healthcare systems | The fraction of days spent in hospital because of readmission, RR |
| Albert (2016) ²⁴ USA | Multiprofessional teamwork, promote self-care, transition information | Individual patient issues and preferences, social and community support | Readmission, emergency care, QOL, cost savings, prolonged survival |
| Tingley (2015) ²⁵ USA | Team-based transitional care, standard communication formats | Patients and their needs, change in healthcare, communication, infrastructure, community standards | Acute care hospitalization, mortality, readmission |
| Albert (2015) ¹⁹ USA | Handoff communication, interdisciplinary care, self-care management | High-risk patient identification, inadequate social support, poor health literacy, patient needs, environmental resources | Readmission, mortality, emergency care visits, QOL, PS, care cost, depression, self-esteem, DS, self-management skills |
| Kitts (2014) ³⁷ USA | Multidisciplinary teams, an improved quality of education | Multiple disease states | Readmission, QOL, ACR |
| Stamp (2014) ³⁸ USA | Communication, coordinated multidisciplinary referrals, inpatient education and counseling, self-care | Multiple symptoms, reduce Medicare Base reimbursements, the Affordable Care Act | Readmission, QOL, cost-effectiveness |
| Vedel (2015) ⁷ Canada | Patient or caregiver education, self-management, a discharge letter | Multiple exacerbations, not knowing the treatment plan, lack of coordination and communication | ACR, EDV |
| Van Spall (2019) ³⁹ Canada | Self-care education, multidisciplinary care, a discharge summary | Contextual factors, older, comorbidities | ACR, EDV, mortality, DS, QOT, QOL |
| Harrison (2002) ¹⁷ Canada | Patient education, self-management, linkages among healthcare providers and patients, a nursing transfer letter and telephone outreach | The pressure on hospital resources, current practice guidelines' recommendations | HRQOL, ACR, EDV |
| Thompson (2019) ²⁰ UK | Self-care improvement, attain support from health professionals | | |
| Warden (2014) ⁴⁰ USA | Multidisciplinary team, medication education, medication adherence improvements | The burden, adverse drug events | Satisfaction, readmission, cost savings |
| Huntington (2013) ⁴¹ USA | Self-management training, education | | RR, economic savings |
| Slyer (2011) ⁴² USA | Care coordination, patient education, interdisciplinary team, improve self-management | Health reform, major health burden | ACR rates |
| Rich (1995) ¹⁶ USA | Multidisciplinary intervention, comprehensive education, improve compliance | Noncompliance with medications and diet, elderly, risk factors for early readmission | RR, QOL, costs |
| Anderson (2005) ⁴³ USA | Multidisciplinary disease management, coordinated program, self-empowerment | Pressure to reduce hospital costs and inpatient LOS | RR, medical services utilization |
| Phillips (2004) ⁴⁴ USA | Enhance self-care, multidisciplinary home care | The Medicare Prospective Payment System | RR, all-cause mortality, LOS, QOL, medical costs |

(Continued)

Table 1 (Continued).

| Author (Year)/Country | Attributes | Antecedents | Consequences |
|---------------------------------------|--|---|--|
| Lambrinou (2012) ⁴⁵ Cyprus | Multidisciplinary teams, self-care empowerment, in-person communication | High-risk patients | RR |
| Atienza (2004) ⁴⁶ Spain | Multidisciplinary, coordinated, formal education, self-care enhancement | Comorbidities, lack of adherence, poor follow-up controls | Readmission, EFS, mortality, QOL, cost |
| Lin (2022) ⁴⁷ China | Self-management, disease-related education, a personalized nursing plan | Lack of self-management awareness, weak poor family support | RR, emergency visit rate, mortality |
| Oscalices (2019) ⁴⁸ Brazil | Individualized discharge guidance, optimize self-care, nursing education | Nonadherence to the treatment, not knowing the medications, large expenses for the health system | Therapeutic adherence, readmission, mortality |
| Li (2022) ⁴⁹ China | Care coordination, self-care enhancement | Fragmented care, burden on individuals and the healthcare system | The risk of all-cause mortality, HRQOL, self-care, emotional well-being |
| Li (2021) ⁵⁰ China | Promote healthy behavior | A substantial burden, vulnerable, the short of care coordination | ACR, HF-specific readmission, EDV, LOHS |
| Mutharasan (2020) ⁵¹ USA | Multidisciplinary team, care coordination, checklists, self-awareness of symptoms | Comorbidities, new technologies, low socioeconomic status, discharge readiness, health literacy factors | |
| Mai (2020) ⁵² South Korea | Health education and counseling, message, self-management, multidisciplinary team | Complex comorbidities, social, economic, cultural contexts, racial ethnicity | ACR rate, EDV, mortality, LOHS, care costs, QOL, HRQL, satisfaction, QOT |
| Ota (2013) ⁵³ USA | Patient-specific education | Complex syndrome, imposing reimbursement penalties | RR, mortality |
| Gorodeski (2013) ⁵⁴ USA | Multidisciplinary care, coordinated care, intensive patient education | Worsening functional capacity, clinical practice, new infrastructure, use of technology, culture | PS, RR |
| Blumer (2021) ⁵⁵ Canada | Self-care education | | DS, QOT, HRQOL |
| Naylor (2004) ¹⁸ USA | Multidisciplinary team, individualized approach, collaboration, promote adherence | Multiple comorbidities, poor continuity of care, limited access to services | Readmission, mean total costs, QOL, PS |
| Williams (2016) ⁵⁶ UK | Patient education, multidisciplinary team, increase self-efficacy | A burden on healthcare resources | Readmission, LOS, PS |
| Bixby (2000) ⁵⁷ USA | Collaboration, individualized care plan, multidisciplinary team | Comorbidity, complex medication, changes in health care delivery | Readmission |
| Anderson (2018) ⁵⁸ USA | Multidisciplinary team, handoff communication, collaborative-care, self-management | Low literacy, socioeconomic status, ethnicity, residential environment | Readmission, morbidity, mortality, costs |

Abbreviations: HRQOL, health-related quality of life; QOL, quality of life; LOHS, length of hospital stay; EDV, emergency department visits; EFS, event-free survival; RR, readmission rate; LOS, length of stay; ACR, all-cause readmission; DS, discharge preparedness; PS, patient satisfaction; QOT, quality of transition.

Related Concept

Discharge Planning

Discharge planning⁵⁹ is a centralized, coordinated and multidisciplinary process, and through the cooperation of health professionals, patients and their families, patients can receive continuous care after discharge. The definition of transitional care can be seen as evolving from discharge planning, and it is a method to achieve transition.

Continuity of Care

Continuity of care can be defined as the degree to which a series of discrete healthcare events is experienced as coherent, connected and consistent with a patient's medical needs and personal context.⁶⁰ It stresses continuity of caring behavior that is carried out prior to admission and predischARGE and postdischarge management. Transitional care focuses on continuity of care during transition and transfer.

Model Case

Mr. Lee, a 72-year-old man, had a history of chronic heart failure disease, hypertension and long-term oral drug treatment. He was hospitalized for chest distress and edema.

His wife and his daughter accompanied him during his admission assessment. After a complete medical history was obtained, a specialist nurse in the ward talked with him and his family to learn which knowledge related to disease and self-management skills, such as self-measured blood pressure, drug use, sodium restriction, dietary care and exercise rehabilitation, he had mastered. The specialist nurse also asked about hypertension management in the local place where Mr. Lee resides. After overall assessment, the specialist nurse contacted the multidisciplinary team who provided coordinated services and made a comprehensive discharge plan. Moreover, the specialist nurse offered intensive education and consultation to improve the patient's self-care. Mr. Lee's physical stability returned following his treatment, and he expressed that he felt better. Before discharge, the nurse reaffirmed all discharge education using the teach-back method to confirm that the patient and his family members understood the health information accurately. At the same time, the nurse reminded Mr. Lee and his family to add the department WeChat, follow the public number to reserve his follow-up appointments and carry out daily consultations. To ensure complete and clear information transmission during referral, the physician delivered discharge summaries to patients; thus, the primary care physicians could receive useful information and develop subsequent treatment and management.

After discharge, the patient took oral medication regularly, self-measured his blood pressure at home, paid attention to keeping warm, ate a low-salt diet and light diet and performed Tai Chi exercise. In addition, primary care physicians and nurses made frequent follow-up home visits, and Mr. Lee received online counseling through WeChat when he had questions. After the postdischarge interventions, the patient was more active in social activities, and his quality of life improved.

Final Definition of Transitional Care in Patients with Heart Failure

The definition of transitional care in patients with heart failure is a comprehensive, multidisciplinary, individual-tailored strategy during a vulnerable period to improve patient self-management, the care ability of caregivers and coordination between hospital resources and social support systems for continuous management to promote smooth patient transitions between different locations. A diagram depicting the relationship among antecedents, attributes, and consequences for transitional care in patients with heart failure is shown in [Figure 2](#).

Measurement Tools

Measurement instruments are tools that define the characteristics of the concept.⁹ At present, there is no specific assessment tool for identifying patients with HF who will require transitional care after hospitalization. Yoshimura et al⁶¹ developed the care transitions scale to assess HF patients' readiness for hospital discharge, but the usefulness of this scale in nursing practice needs to be explored in more studies. The patient's health status is one reason why healthcare providers apply transitional care to HF patients, and those patients who usually have multiple complications make management difficult. The Charlson comorbidity index and the CHA2DS2-Vasc score are validated scores to assess

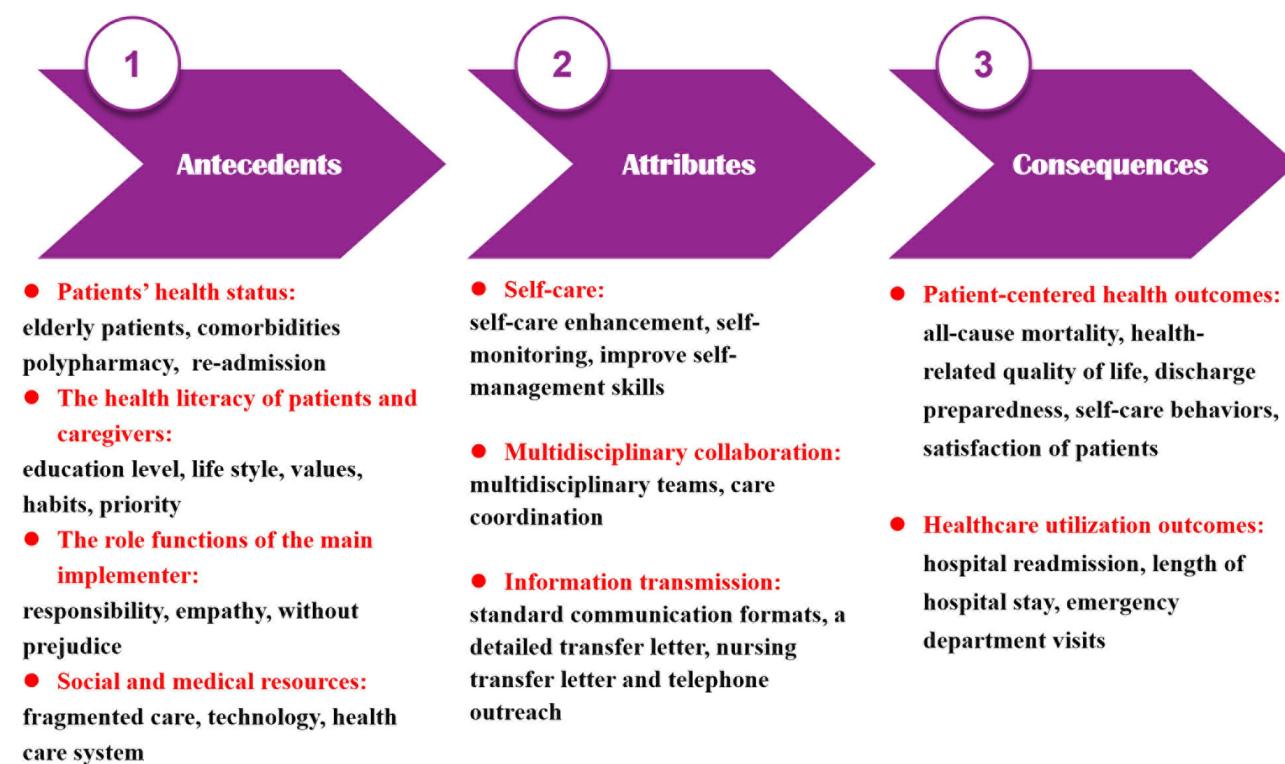


Figure 2 Characteristics of transitional care in patients with heart failure.

comorbid burden and clinical prognostic.^{62,63} Sonaglioni and his colleagues found that CHA2DS2-VASc score is an independent predictive factor for all cause mortality and re-hospitalizations in HF patients aged 75 years and older regardless of atrial fibrillation.⁶⁴ Shuvy and her colleagues reported that the age-adjusted Charlson comorbidity index is significantly associated with clinical outcome in patients with heart failure.⁶⁵ Therefore, these clinical prognostic scores might be useful for identifying patients with HF who need transitional care.

Discussion

In previous reports, most studies^{37,38,40–43} have focused on the interventions and impacts of transitional care in heart failure patients, with little attention given to its mechanism and attributes. To the best of our knowledge, this paper is the first to describe the concept of transitional care in patients with heart failure, aiming to distinguish it from similar concepts, such as discharge planning and continuity of care. As seen from the results of this concept analysis, transitional care in patients with HF is neither discharge planning alone nor continuity of care using case management. To a certain extent, transitional care in HF patients is the clinical situation use of Meleis's transitions theory.⁶⁶ It is important to acquire knowledge and information, develop plans, comprehensively assess the problems faced, recognize social support systems, communicate with relevant people, and facilitate better management during the transition process.⁸ Role insufficiency, role transition, and changes in surroundings when a patient is discharged from the hospital to home all lead to stress and uncertainty for the patient, so establishing a reasonable response pattern is necessary to achieve role supplementation. Compared with other diseases, transitional care in patients with heart failure pays more attention to vulnerable periods and designs comprehensive services that are initiated during hospitalization due to the plateaued readmission rate.

In the process of achieving role supplementation, transitional care interventions, which have multiple components, are beneficial to patient-centered health outcomes. In particular, educating and providing counseling for HF patients to improve their self-care is the prime attribute of transitional care for these patients. However, a previous meta-analysis

revealed that approximately 33% of patients with HF have low health literacy,⁶⁷ thus highlighting the importance of developing an effective educational strategy tailored to each patient's health literacy to enhance their self-management.

The literature review strongly emphasized communication and collaboration as another feature of transitional care in HF patients. The formulation of a comprehensive, multidisciplinary, individually tailored strategy requires multiple health care providers, such as physicians, nurses, pharmacists, and dietitians, to encourage patients and their caregivers to participate in the decision-making process and quality improvement. Moreover, continuous management in the transition period is also achieved through communication and coordination between hospital resources and the social support system. Common goals, responsibilities, and shared values drive team-based transitional care for HF patients.

Considering the cost-effectiveness of transition-of-care interventions, comprehensively assessing and screening patients with HF who need transitional care after hospitalization is essential and beneficial in practice. A report described that¹⁹ risk models used to predict readmission can be used to predict the requirement for transitional care; however, the development of specific assessment tools for identifying patients with HF who need transitional care after hospitalization is urgent.

Transitional care in patients with heart failure is mainly led by nurses. Because medication nonadherence is a risk factor for HF readmission and because of the unique ability to provide education about medication reconciliation,⁶⁸ the impact of the pharmacist's role in medication adherence has been emphasized. This is also an evolution of the role functions of the main implementer in the application of transitional care in HF patients. Novel technologies to expand access to pharmacy services could improve the current limitations of transitional care in HF patients.⁵⁸

In China, studies on transitional care for HF patients are mainly from Hong Kong, implementation in mainland China is scarce, and discharge planning is the research hotspot. In contrast to developed countries, Chinese communities suffer from a lack of medical resources, especially for those living in rural areas. If doctors and nurses working in primary care settings can be involved in the management of heart failure patients' transitions and cooperate with health care staff in tertiary hospitals, they will provide HF patients with more accessible transitional care services and better management. Therefore, how to build networks to connect these groups in practice deserves further research.

Limitations

Because we retrieved only published literature, articles published in English, Chinese and medical disciplines are limited, and the document collection may be incomplete.

Conclusion

With the increasing application of transitional care in patients with heart failure, there is insufficient evidence to reflect the conceptual content of this phase, so it makes sense to conduct a conceptual analysis of transitional care in this area. The objective of this analysis was to provide conceptual clarity and direction for future research and practice. By analyzing the attributes, antecedents and consequences of transitional care in patients with heart failure, a better understanding of this concept was obtained. This study found that transitional care in HF patients is a systematic care process during a vulnerable period that improves patients' self-management and coordination between hospital resources and social support systems for continuous management to promote smooth patient transitions between different locations. This concept analysis will offer healthcare providers information in designing evidence-based interventions and quality improvement strategies to ensure that transition processes produce desired outcomes. In addition, it is also helpful for developing specific assessment tools to identify patients with HF who need transitional care.

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Disclosure

The authors report no conflicts of interest in this work.

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