

EXPERIENCE REPORT

COMPLEX CLINICAL HOSPITAL MODEL OF DISCHARGE MANAGEMENT: CONCEPTION AND IMPLEMENTATION

Elizabeth Bernardino¹

Jaqueline Dias do Nascimento Selleti²

Otília Beatriz Maciel Da Silva²

Valéria Cristina Lopes Gallo²

Jéssica de Oliveira Veloso Vilarinho²

Olivia Luciana dos Santos Silva³

Camila Rorato²

ABSTRACT

Objective: to present the conception and implementation of the Discharge Management Model of the Clinics Hospital Complex of the Federal University of Paraná. Method: experience report occurred between 2017 and 2020, about the design and implementation of the Discharge Management model with support of the logic model. Results: continuity of care and case management are operationalized by a dedicated team of liaison nurses who manage and counter-reference care to primary care and other points in the health care network. Conclusion: discharge management has been consolidated as a managerial strategy that integrates the health care network, avoids discontinuities in care, promotes patient and family safety, and optimizes beds, and inserts complex patients into the primary care agenda. It contributes to the continuity of care and represents evidence of a new field of work for nurses.

DESCRIPTORS: Health Services Administration; Patient Discharge; Health Services; Continuity of Patient Care; Nursing.

HOW TO REFERENCE THIS ARTICLE:

Bernardino E, Selleti JD do N, Silva OBM da, Gallo VCL, Vilarinho J de OV, Silva OL dos S, et al. Complex clinical hospital model of discharge management: conception and implementation. Cogitare Enferm. [Internet]. 2022. [accessed "insert day, monh and year"]; 27. Available on: http://dx.doi.org/10.5380/ce.v27i0.87463.

INTRODUCTION

The population aging¹, the increase in deaths from Chronic Non-Communicable Diseases (NCDs)² and issues related to underfunding, in addition to technological advances in health care are conditions that pose challenges to the Brazilian Unified Health System (SUS). The demands related to the management of NCDs sometimes exceed the possibilities offered, leading to obstacles, discontinuities of care, and overloading of the health system³⁻⁵.

Considering this context, common in the Brazilian reality and in international realities, political and management strategies are elaborated to balance the population's demand for health care and the offers provided by integrated systems or healthcare networks (HCN). In Brazil, guidelines⁶⁻⁷ establish flows and services that aim to provide universality, integrality, and equity in health care to the population. Among these, the Internal Regulation Centers, which constitute the interface with the Regulation Centers of the different management spheres, should be highlighted, aiming at meeting the users' needs, including alternatives to hospital practices⁷⁻⁸.

As part of the HCN body of the capital city of Paraná, the Clinics Hospital Complex of the Federal University of Paraná (CHC-UFPR) experiences this daily imbalance between offers and demands, thus challenging institutional management to promote systematic adjustments that contribute to the balance and continuity of care. In this context of self-regulation and seeking to meet the profile of clinical patients with multiple comorbidities and difficult management, the CHC-UFPR implemented in 2017 the CHC Discharge Management Model and, therefore, this article aims to present the design and implementation of the Discharge Management Model of the Clinics Hospital Complex of the Federal University of Paraná.

METHOD

This is a professional experience report on the conception and implementation of the CHC (Clinic Hospital Complex) Model of Discharge Management, which occurred in the largest public teaching hospital in Paraná - Brazil, between the years 2017 and 2020. The design process involved technical visits, research developed on the subject and the use of methodological support.

The conception of the CHC Discharge Management Model was based on research developed in the institutional context¹¹⁻¹² and on experiences in the international scenario, the product of a multicenter study between Portugal, Spain, and Canada¹³⁻¹⁵, as well as specific national legislation⁷. This proposal allowed the construction of a hybrid model, designed based on successful experiences and needs of the service and the HCN.

The model was structured under the assumptions: exclusive team with emphasis on the liaison nurse (professional responsible for coordinating discharge regarding the transfer of information from the hospital to PHC(Primary Health Care), i.e., makes the link between patients, family, professionals and outpatient care)¹¹; centralized in the Care Regulation Unit; early identification of patients according to the inclusion criteria established by the service team (patients with chronic diseases of difficult control; in palliative care; with need for continuity of care at home; using ventilatory support devices, food or other health devices; patients with important social frailties and de-hospitalization situations); institutionalization of counter-reference using digital resources such as electronic medical records and official communication by electronic mail; integration with the Municipal Health Secretariats and with the State Health Secretariat.

The implementation relied on the methodological support of the logic model (LM) for planning, pilot execution, and consolidation. The LM emerged in Germany as a methodological resource to systematize and guide project planning in a systematic and visual way⁹. The planning carried out with the schematic construction of the LM in health allows for a better understanding of the interventions through details involving actors, structure, resources, objectives, and evaluations with progressive monitoring of the interventions¹⁰.

The study was approved by the Ethics Committee of the Clinics Hospital Complex of the Federal University of Paraná, as No. 3,409,894, June 2019.

RESULTS

The timeline, presented in Figure 1, shows the main stages that will be detailed below. The implementation started with planning using the LM, highlighting: the definition of initial, intermediate, and final objectives of this phase; and the definition of human, physical resources, materials, and equipment needed to develop the activities. The institutions involved were an essential part, representing articulation and contractual agreements between CHC-UFPR and municipal and state managers.

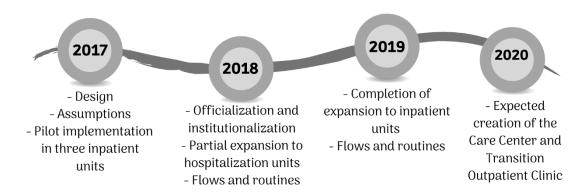


Figure 1 - Timeline of conception and implementation of the CHC Model - of Discharge Management. Curitiba, PR, Brazil, 2020

Source: Authors (2020).

General and specific activities were conceived by the coordinators and first professionals linked to the service and involved: theoretical deepening of the theme, construction of workflows and work algorithms; standard operating procedures, selection of patient inclusion criteria; establishment of mediation and communication with the HCN; and production of visual identity and dissemination material. The barriers and facilitators of the implementation process were identified in this phase, presented, respectively, as the numerical limitation of professionals exclusive to the service and the existence of an internal policy that supports the CHC model of discharge management.

After the planning phase, the execution of a pilot study was initiated in three inpatient units in the second half of 2017 with the selection of new team members, called liaison nurses. Professionals were identified and selected based on individual competencies through curriculum analysis, clinical experience, decision-making, knowledge of the HCN, communication skills, and empathy.

After a period of six months, the model was made official and institutionalized in a ceremony involving health managers from the institutional, municipal, state, and federal spheres, marking the beginning of a consolidation phase. Figure 2 represents the CHC Management Model.

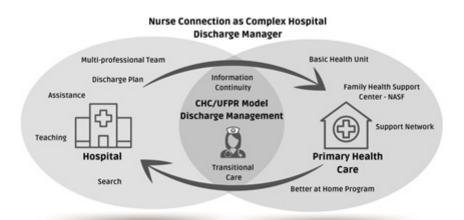


Figure 2- CHC Model - of Discharge Management. Curitiba, PR, Brazil, 2020

Source: Authors (2020).

For the expansion process in all hospital units, the service had five liaison nurses, and each one was responsible for approximately 100 beds. Strategies were used, such as: disclosure of the Discharge Management service attributions to the multi-professional team through clinical and administrative meetings; electronic, printed and digital newsletters; classes for resident professionals and integration events for new professionals; disclosure of indicators; and daily visits to the inpatient units for dissemination and identification of patients that met the criteria for discharge management.

Patient capture occurred based on requests from any member of the multi-professional team or active search through visits to the units. Figure 3 shows the flow of patient intake and discharge management.

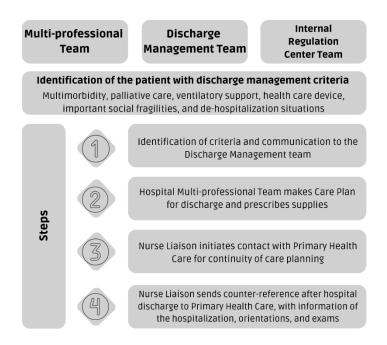


Figure 3 - Flow of capture and management of hospital discharge in the CHC-UFPR Discharge Management Model. Curitiba, PR, Brazil, 2020

Source: Authors (2020).

Based on the identification of criteria and selection of patients with potential benefit from discharge management, the liaison nurses initiate the articulation with the HCN points through e-mail messages, printed documents, and telephone calls. The early contact with the PHC team allows the planning and organization of the assistance for the continuity of care, including patients with home ventilatory support, rehabilitation, and home care service. The exchange of information occurs in electronic medical records and by e-mail, involving discharge summaries, care plans, prescriptions for supplies and exams performed during hospitalization.

A new expansion will include the management of outpatient discharges by creating outpatient support services with joint protocols between hospital and primary care. This project will strengthen the resoluteness for patients linked to the CHC-UFPR and those who need stabilization before being referred to the PHC.

Currently, the service is an internship field for resident nurses and receives professionals from other institutions to exchange experiences. Furthermore, research has been developed to create indicators that can measure the impact of the implementation of this model in terms of the reduction of hospitalization time, reduction of institutional costs, and impact on care.

CONCLUSION

The implementation of the CHC Discharge Management Model in a public, tertiary and teaching hospital represented an innovation and a challenge. It proved to be effective in what was proposed and is consolidated as an administrative tool and as a counter-referral strategy for patients considered potential consumers of health services.

Avoiding discontinuities in relation to care, promoting safety for patients and families, optimizing hospitalization beds, and inserting complex patients in the PHC agenda are some of the contributions of the model that can serve as an example for other institutions and as evidence of a new field of work for nurses.

The expansion of this model is a consequence of its successful implementation and consolidation. The expansion of the model to outpatient clinics and the Transitional Care Center represents an investment in the management of chronic conditions, contributing to the effectiveness of continuity of care.

REFERENCES

- 1. IBGE. Dados do Censo 2010. Diário Oficial da União [Internet]. 2010. [acesso em 10 dez 2020]; 4 nov. Disponível em: http://www.censo2010.ibge.gov.br/dados_divulgados/index.php?uf=31.
- 2. World Health Organization. WHO Global NCD Action Plan 2013-2020. [Internet]. Genebra: World Health Organization; 2013.[acesso em 23 jun 2021]; Disponível em: http://apps.who.int/iris/bitstream/handle/10665/94384/9789241506236_eng.pdf;jsessionid=50/4513BE77A1D19CDA8BCC40DDA1F3C0?sequence=1.
- 3. Peiter CC, Santos JLGdos, Lanzoni GM de M, Mello ALSF de, Costa MFBNA da, Andrade SR de. Redes de atenção à saúde: tendências da produção de conhecimento noBrasil. Esc. Anna Nery [Internet]. 2019. [acesso em 23 jun 2021]; 23(1): e20180214. Disponível em: https://doi.org/10.1590/2177-9465-ean-2018-0214.
- 4. Santos NR dos. 30 years of SUS: the beginning, the pathway and the target. Ciênc. saúde coletiva [Internet]. 2018 [acesso em 23 jun 2021]; 23(6): 1729-1736. Disponível em: http://dx.doi.org/10.1590/1413-81232018236.06092018.
- 5. Malta DC, Bernal RTI, Lima MG, Araújo SSC de, Silva MMA da, Freitas MI de F, et al. Doenças crônicas não transmissíveis e a utilização de serviços de saúde: análise da Pesquisa Nacional de Saúde no Brasil. Rev Saude Publica [Internet]. 2017 [acesso em 23 jun 2021]; 51Supl 1:4s. Disponível em: https://doi.org/10.1590/S1518-8787.2017051000090.
- 6. Brasil. Ministério da Saúde. Gabinete do Ministro. Portaria nº 4.279, de 30 de dezembro de 2010. Estabelece diretrizes para a organização da Rede de Atenção à Saúde no âmbito do Sistema Único de Saúde (SUS). Diário Oficial da União [Internet]. Brasília: Ministério da Saúde; 2010. Disponível em: http://bvsms.saude.gov.br/bvs/saudelegis/gm/2010/prt4279_30_12_2010.html.
- 7. Brasil. Portaria n° 3.390, de 30 de dezembro de 2013. Institui a Política Nacional de Atenção Hospitalar (PNHOSP) no âmbito do Sistema Único de Saúde (SUS), estabelecendo-se as diretrizes para a organização do componente hospitalar da Rede de Atenção à Saúde (RAS). Diário Oficial da União [Internet]. Brasília: Ministério da Saúde; 2013. Disponível em: http://bvsms.saude.gov.br/bvs/saudelegis/gm/2013/prt3390_30_12_2013.html.
- 8. Brasil. Ministério da Saúde. Secretaria de Atenção à Saúde. Departamento de Atenção Hospitalar e de Urgência. Manual de implantação e implementação: núcleo interno de regulação para Hospitais Gerais e Especializados. [Internet]. Brasília: Ministério da Saúde, 2017. Disponível em: http://www.observatoriohospitalar.fiocruz.br/biblioteca/manual-de-implantacao-e-implementacao-do-nir-nucleo-interno-de-regulação-para-hospitais.
- 9. Cassiolato M, Gueresi S. Como elaborar modelo lógico: roteiro para formular programas e organizar avaliação. [Internet]. Brasília: IPEA; 2010. [acesso em 23 jun 2021]; Disponível em: http://repositorio.ipea.gov.br/bitstream/11058/5810/1/NT_n06_Como-elaborar-modelo-logico_Disoc_2010-set.pdf.
- 10. Ferreira L, Ribeiro MS, Oliveira LZde, Szpilman ARM, Esposti CDD, Cruz MM da. Validação do modelo lógico de implementação da Política de Educação Permanente em Saúde na Atenção Primária. Trabalho, Educação e Saúde [Internet]. 2020 [acesso em 23 jul 2021]; 18 (2) e0026294. Disponível em: https://doi.

org/10.1590/1981-7746-sol00262.

- 11. Bernardino E, Segui MLH, Lemos MB, Peres AM. Enfermeira de ligação: uma estratégiade integração em rede. Rev. bras. enferm. [Internet]. 2010. [acesso em 23 jul 2021]; 63 (3): 459-463. Disponível em: https://doi.org/10.1590/S0034-71672010000300018.
- 12. Ribas E do N, Bernardino E, Larocca LM, Poli PP, Aued GK, Silva CPC da. Enfermeira de ligação: uma estratégia para a contrarreferência. Rev. Bras. Enferm. [Internet]. 2018 [acesso em 23 jul 2021]; 71(Suppl 1): 546-553. Disponível em: http://doi.org/10.1590/0034-7167-2017-0490.
- 13. Martins MM, Aued GK, Ribeiro OMPL, Santos MJ, Lacerda MR, Bernardino E. Discharge management to ensure continuity of care: experience of portuguese liaison nurses. Cogitare Enferm. [Internet]. 2018 [acesso em 23 jul 2021]; (23)3: e58449. Disponível em: http://dx.doi.org/10.5380/ce.v23i3.58449.
- 14. Aued GK, Bernardino E, Lapierre J, Dallaire C. Liaison nurse activities at hospital discharge: a strategy for continuity of care. Rev. Latino-Am. Enfermagem [Internet]. 2019 [acesso em 23 jul 2021]; 27: e3162. Disponível em: https://doi.org/10.1590/1518-8345.3069.3162.
- 15. Costa FBNAC da, Andrade SR de, Soares CF, Pérez EIB, Tomás SC, Bernardino E. Acontinuidade do cuidado de enfermagem hospitalar para a Atenção Primaria à Saúde na Espanha. Rev escenferm USP [Internet]. 2019 [acesso em 23 jul 2021]; 53: e03477. Disponível em: http://dx.doi.org/10.1590/s1980-220x2018017803477.

Received: 05/01/2022 Approved: 23/05/2022

Associate editor: Luciana Kalinke

Corresponding author: Elizabeth Bernardino Universidade Federal do Paraná, Curitiba, PR, Brasil Rua Francisco Querino de Lima, 199, casa 09, São Braz, CEP 82015-360, Curitiba, PR. E-mail: elizaber@ufpr.br

Role of Authors:

Substantial contributions to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work - Bernardino E, Selleti JD do N, Silva OBM da, Gallo VCL; Drafting the work or revising it critically for important intellectual content - Bernardino E, Selleti JD do N, Silva OBM da, Gallo VCL, Vilarinho J de OV, Silva OL dos S, Rorato C; Agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved - Bernardino E, Selleti JD do N, Silva OBM da. All authors approved the final version of the text.

ISSN 2176-9133



This work is licensed under a Creative Commons Attribution 4.0 International License.