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A Model for Hospital Discharge Preparation: From Case Management to Care Transition

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Abstract

There has been a proliferation of initiatives to improve discharge processes and outcomes for the transition from hospital to home and community-based care. Operationalization of these processes has varied widely as hospitals have customized discharge care into innovative roles and functions. This article presents a model for conceptualizing the components of hospital discharge preparation to ensure attention to the full range of processes needed for a comprehensive strategy for hospital discharge.

Improving hospital discharge processes and reducing readmissions are priority issues in the national agenda for healthcare reform.¹ These 2 interrelated issues embody the duality of needs for solutions to address a critical problem area related to both the quality and cost of healthcare—that of preparing the patient and family for a successful discharge.² This transition is evidenced by their ability to manage continuing care needs at home and in community-based settings without recurring need for acute or emergent care services. Transitional care models focus on coordination and continuity of care for high-risk populations such as the elderly,³⁻⁵ those with high utilization conditions such as cardiac disease,^{6.7} and mental/behavioral disorders.⁸ However, all hospitalized patients, regardless of risk status or the setting to which they are being discharged, require some form of discharge preparation.

The terms typically used to refer to processes involved in preparing the patient for leaving 1 care setting such as the hospital and organizing subsequent systems of care include discharge preparation, discharge planning, care coordination, and case management. While discharge preparation has been commonly used as a surrogate term for discharge teaching and planning for subsequent services,⁹ discharge planning encompasses assessment, planning, and coordination activities,¹⁰ care coordination is services focused, and case management focuses on the complex needs of individual patients. Yet these concepts are inconsistently defined, often used interchangeably, or presented with overlapping meaning.¹¹ They are often included as core elements of intervention programs yet not well documented in standard documentation systems.¹² The lack of uniformity in description of the core processes, variability in roles aligned to these processes, and the plethora of homegrown tools for

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operationalizing and evaluating these processes create barriers to ongoing improvement efforts.

Although the concept of discharge preparation is applicable across many care settings, the purpose of this article is to propose a conceptual model of hospital discharge preparation (<u>Figure 1</u>) to standardize the use of the term and guide investigation and operationalization of core components of the hospital discharge process of care.

Conceptual Model for Hospital Discharge Preparation

A definition of the term "discharge preparation" was synthesized from review of the literature as the meta-term for multiple care processes whereby the patient, family, and receiving care providers become ready for the discharge and management of health needs in a subsequent care venue. Discharge preparation is the term that encompasses the 3 processes of discharge planning (composed of 2 components: [1] assessment and planning for discharge needs and [2] estimation of readmission risk), discharge coordination [arrangements for any necessary support after discharge], and discharge teaching [educational interventions].

Hospital discharge preparation is a complex process requiring input, timely information exchange, and coordination between multiple disciplines and with patients and families.¹³ While numerous professional roles can perform various discharge functions, preparing the patient (and family/caregivers) for discharge from the hospital is a primary function of hospital-based clinical nurses. Clinical nurses are the frontline professionals responsible for preparing the patient and care delivery systems for discharge and postdischarge care needs ^{14,15} and are the last line of defense in ensuring quality discharge preparation before the patient is formally discharged.

Hospital-based discharge preparation activities sit within the larger context of transitions in care from hospital to the next care setting. <u>Table 1</u> presents 5 nationally recognized discharge transition models with a cross-walk of hospital discharge preparation components initiated by hospital staff during the hospitalization to prepare for discharge and the posthospitalization period. To facilitate

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operationalization, a description of the 3 components of discharge preparation, including processes and roles, follows. <u>Table 2</u> presents useful tools for operationalizing and evaluating the components of the model. The Table, Supplemental Digital Content 1, <u>http://links.lww.com/JONA/A429</u>, provides the citations for tools identified in <u>Table 2</u>.

Discharge Planning

Discharge planning is the development of an individualized discharge plan prior to leaving the hospital,¹⁶ with the aim of improving patient outcomes and reducing costs of care through timely discharge and coordination of providers and services following hospital discharge to reduce readmission risk and promote community-based health management. Two key processes summarize the important steps to achieve the desired patient and system outcomes.

- A structured process initiated early during the hospitalization phase is required as a condition of participation in the Centers for Medicare & Medicaid Services programs.¹⁷ Steps include identification of patients who will benefit from discharge planning services; assessment for postdischarge needs related to self-care, care provided by family members, and care from professionals; planning for information and resource needs; and coordination of service needs for the postdischarge period.^{10,11,16,18}
- Readmission risk assessment has been introduced as part of transitions in care initiatives, specifically to identify high-risk, high-cost patients who will benefit from coordinated follow-up in the postdischarge period. Using a risk assessment tool identifies patients at risk of adverse postdischarge events for the purpose of initiating anticipatory monitoring and/or interventions that are targeted to avoiding unplanned readmission or emergency department (ED) visits.

Discharge planning begins prior to or on admission and continues throughout the course of hospitalization. Assessment of risks related to functional or cognitive status as well as the home environment, support systems, and psychosocial and cultural factors is often completed during the admission process, whereas other risk

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factors such as knowledge deficits may be assessed closer to discharge. The patient's evolving medical condition necessitates continual reassessment and underpins decisions about timing and disposition, including decisions about whether to go home independently, with family support, and/or with home-based continuing care services, or to transfer to a post-acute care facility.¹⁹

A key feature of the discharge planning process is engaging the patient and family and the multidisciplinary team. Discharge planning should be patient centered and driven by the patient's specific needs and preferences. Patient and family engagement is critical to successful hospital discharge planning.^{20,21} Inputs from the entire care team aid the patient and family in developing individual and feasible posthospital plans of care prior to leaving the hospital.

Depending on the hospital's model of discharge planning, various disciplines can be involved in components of the process. For example, a discharge planning evaluation can be provided by an RN, social worker, or other appropriately qualified personnel as specified in the institution's policies and procedures.¹⁷ Utilization managers, in their role to achieve timely discharge and maximize reimbursement for care, also contribute input to the planning process. Successful implementation of the discharge plan requires communication, coordination, and collaboration among the involved disciplines and functional roles.

Discharge Coordination

Discharge coordination involves implementation of actions targeted to smoothing the transition from hospital and diminishing problems after discharge through arranging, linking, and/or sequencing transition support services across providers and care delivery systems.^{12,22,23} Coordination of care is not an intervention itself but a schema for management of interventions, with continuity of information and relationships among providers across settings viewed as outcomes.^{12,24} Key coordination actions include communication within the interdisciplinary care team during hospitalization to achieve timely discharge, making arrangements for resources for postdischarge care, and transfer of information to postdischarge care providers.

Discharge coordination functions are embedded within nationally recognized programs for transitioning care at hospital discharge that have demonstrated improvements in patient outcomes and costs of care (<u>Table 1</u>). While each of these programs identifies specific recommended coordination activities, core discharge coordination functions for hospitals have been accepted in the National Voluntary Consensus Standards for Care Coordination,²⁵ including

- medication reconciliation;
- a transition record given to the patient (containing specific elements of inpatient care, postdischarge and patient selfmanagement information, advanced care plan, and contact information); and
- timely transmission (within 24 hours) of the transition record to the primary provider or next care setting.

The tension between best discharge practices and timely discharge is evident in the roles hospitals assign to discharge coordination functions. Case managers (either nurses or social workers), discharge advocates, and transition care coordinators focus on identification and mobilization of family, hospital, and community resources and services to achieve optimal postdischarge outcomes, prevention of adverse outcomes, and reduced costs of care. Discharge coordinators, sometimes called expeditors or flow coordinators, are charged with ensuring task completion to facilitate timely discharge, defined as on or before the expected length of stay, or early in the day on the day of discharge. Systems and structures to facilitate timely discharge include mechanisms such as a red/yellow/green light system for anticipatory planning for next-day discharge,²⁶ and the use of discharge lounges for those waiting for pending laboratory test results or transportation.²²

Discharge Teaching

Discharge teaching, an essential component of discharge preparation,²⁸ is the composite of educational interventions that occurs mainly during hospitalization in order to prepare the patient and family/caregiver for the transition from hospital to home.²⁹

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Teaching is integrated throughout the patient's hospital stay¹⁴ and reaches a focal priority at the time of discharge. When left until the day of discharge, patients' decreased attention span and nurse time pressures may decrease effectiveness.³⁰

Education of patient and families/caregivers is aimed at providing them with information to make informed decisions³¹ and the knowledge, confidence, and skills needed for post-acute care.³² Minimum core content includes^{21,25}

- review of disease condition,
- test results,
- next steps in medical care including follow-up appointments,
- instructions for self-care at home,
- current medications,
- warning signs and problems to watch for, and
- contact information for primary care, pending tests, and emergencies.

Recommendations for improving discharge teaching emphasize a patient-centered approach in which the content and method of teaching are individualized to the patient's characteristics and situation, rather than the typical approach of standardized information based on the patient's diagnosis.³³ While the amount of content is important in preparing patients for discharge, the quality of the delivery of the content or the way nurses perform the teaching is more strongly related to patient perception of readiness for discharge than the amount of content provided.^{29,34} Patient engagement in the learning process and attention to health literacy are key priorities for improving discharge teaching. Discharge teaching requires establishing an effective line of communication to understand the patient-specific barriers to self-care. $\frac{30,35}{2}$ Teach-back is a teaching method that incorporates patient engagement and verification of learning. Assessment of the health literacy facilitates identification of patients at risk of poor understanding of discharge instructions and customization of teaching at the patient's level of literacy.²⁸

Education of patients and caregivers is a primary responsibility of staff RNs,³⁶ although other healthcare providers, including physicians and pharmacists, also claim this role. Lack of clear delineation of the role responsibilities for discharge teaching can

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result in duplication, omission, inconsistent, or confusing information provided to patients and families and poor adherence to discharge instructions.

The Role of Hospital-Based Nursing

Clinical nurses are responsible for performing discharge preparation activities alone or in collaboration with other team members with assigned discharge functions and for ensuring the completeness of preparation before discharge. The close and continuous relationships between patients and their nurses provide the mechanism for surveillance³⁷ of changing needs for the postdischarge period as the patient's clinical condition changes and for knowing the patient and the patient's context,³⁸ both of which are critical to achieving a safe and timely discharge. Preparation for discharge occurs throughout the hospitalization through ongoing monitoring of patient progress against expectations for recovery, identification of postdischarge needs, patient teaching, and communication with other providers, and documentation of the preparatory processes.¹⁴ The role of the clinical nurse is central to an effective and efficient discharge process. As the frontline "coordinator," the nurse's role is to set the discharge plan in motion, oversee discharge activities, engage resources, serve as an information hub, and provide education.¹⁵ Primary nursing care models assign a single clinical nurse as the overseer of care throughout the hospitalization; however, this type of assignment is rarely implemented in contemporary practice because of difficult scheduling logistics. While different nurses care for patients each shift, the discharge preparation role of the collective of nurses caring for a single patient should begin on admission and continue daily throughout the hospitalization.

The role of the clinical nurse is central and continuous during the hospitalization; however, other members of the professional team have roles and responsibilities in the discharge process. Specialized nursing roles such as discharge planners, care coordinators, case managers, and diabetic educators, as well as physicians, pharmacists, and social workers, are frequently involved, particularly with complex cases. The complexity of the RN role as the hub in the discharge process can result in confusion over responsibilities and workflow

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interruptions that disrupt patient care and lead to delays in discharge and nurse dissatisfaction.¹⁵ Recognizing the need for an interprofessional and multirole solution to operationalizing discharge preparation, the proposed conceptual model for hospital discharge preparation describes the components (Figure 1), strategies and role assignments (Table 1), and measures to facilitate the operationalization of the discharge preparation process (Table 2), and the central role of the clinical nurse in managing the discharge preparation process.

Outcomes of Discharge Preparation

The immediate, proximal outcome of discharge preparation is discharge readiness. Readiness for hospital discharge can be assessed from the perspectives of the patients, families, and providers and encompasses dimensions of physical and emotional status on the day of discharge, knowledge about personal and medical self-care, ability to cope at home after discharge, and expected support in the postdischarge period. High-quality, effective discharge education has been associated with readiness for hospital.^{29,34}

Intermediate outcomes are successful patient/family management of care needs at home after discharge with or without formal care services or transfer to an appropriate post-acute care facility for continuing care.^{12,19,39} Postdischarge coping difficulties or development of postdischarge problems is a poor intermediate outcome that can lead to the distal outcome, unplanned return to the hospital for an ED visit, or readmission. The trajectory of influence from discharge readiness to postdischarge coping and subsequently to unplanned return to the hospital for an ED visit or readmission has been documented,^{29,34} as has the impact of transitional care programs on reduction in readmissions.^{32,40,41} Similarly, for patients discharged from skilled nursing facilities, an individualized discharge transition plan results in better adherence to the medical plan of care, better attendance at medical appointments, and fewer readmissions within 30 days.⁴²

Implications for Nurse Leaders

- The proposed conceptual model for hospital discharge preparation (Figure 1) can serve as a guiding structure for ensuring that the 3 major components of discharge (discharge planning, discharge coordination, and discharge teaching) are fully operationalized, with role functions and relationships clearly delineated.
- 2. With many existing and emerging programs describing care innovations to improve patient outcomes and reduce readmissions, role assignments for each component will evolve uniquely in each hospital to address the desired outcomes identified in the model.
- 3. The clinical nurse providing direct care is central to the process of discharge preparation over the course of hospitalization, and as such, the time and effort invested in discharge preparation activities have value to the organization and should be recognized and rewarded.

Conclusion

The conceptual model for hospital discharge preparation (Figure 1) coalesces the many existing components used in discharge and care transition processes into a comprehensive framework for hospital discharge activities. Compilation of components of transitional care models that are initiated in the hospitalization phase of care provides a menu of options of selecting a package of discharge processes for each component of the model. Use of structured tools to support and evaluate the discharge preparation process will create a more standardized approach to measurement of processes and outcomes. This model should not replace discharge transition models and programs that are already well tested but should serve as a framework for operationalizing the discharge preparation process on nursing units and hospital-wide.

References

- 1. National Priorities Partnership. <u>http://www.qualityforum.org/npp/</u>. Accessed November 24, 2014.
- 2. Project RED. <u>http://www.bu.edu/fammed/projectred/components.html</u>. Accessed December 30, 2014.

- 3. Transitional Care Model. <u>http://www.transtionalcare.org</u>. Accessed December 20, 2014.
- 4. Care Transitions. <u>http://www.caretransitions.org/structure.asp</u>. Accessed December 30, 2014.
- 5. Society of Hospital Medicine: Better Outcomes by Optimizing Safe Transitions. <u>http://www.hospitalmedicine.org/Web/Quality_Innovation/Implement</u> <u>ation_Toolkits/Project_BOOST/Web/Quality_Innovation/Implement</u> <u>ation_Toolkit/Boost/Overview.aspx</u>. Accessed December 30, 2014.
- 6. Hospital to Home. <u>http://cvquality.acc.org/Initiatives/H2H.aspx</u>. Accessed December 30, 2014.
- Nielsen GA, Bartely A, Coleman E, et al. *Transforming Care at the Bedside How-to Guide: Creating an Ideal Transition Home for Patients With Heart Failure.* Cambridge, MA: Institute for Healthcare Improvement; 2008.
- Hanrahan NP, Solomon P, Hurford MO. A pilot randomized control trial: testing a transitional care model for acute psychiatric conditions. J Am Psychiatr Nurses Assoc. 2014; 20(5): 315–327.
- Popejoy LL, Moylan K, Galambos C. A review of discharge planning research of older adults 1990-2008. West J Nurs Res. 2009; 31(7): 923–947.
- 10. Bull MJ. Discharge planning for older adults: a review of current research. *Br J Community Nurs*. 2000; 5(2): 70–74.
- Holland DE, Harris MR. Discharge planning, transitional care, coordination of care, and continuity of care: clarifying concepts and terms from the hospital perspective. *Home Health Care Serv Q.* 2007; 26(4): 3–19.
- Popejoy LL, Khalilia MA, Popescu M, et al. Quantifying care coordination using natural language processing and domain-specific ontology. J Am Med Inform Assoc. 2015; 22(e1): e93–e103.
- 13. Hesselink G, Zegers M, Vernooij-Dassen M, et al. Improving patient discharge and reducing readmissions by using intervention mapping. *BMC Health Serv Res.* 2014; 14: 389.
- 14. Foust JB. Discharge planning as part of daily nursing practice? *Appl Nurs Res.* 2007; 20(2): 72–77.
- Rhudy LM, Holland DE, Bowles KH. Illuminating hospital discharge planning: staff nurse decision making. *Appl Nurs Res.* 2010; 23(4): 198–206.

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- Shepperd S, Lannin NA, Clemson LM, McCluskey A, Cameron ID, Barras SL. Discharge planning from hospital to home. *Cochrane Database Syst Rev.* 2013; 1: CD000313.
- 17. Centers for Medicare & Medicaid Service. <u>https://www.cms.gov/Regulations-and-</u> <u>Guidance/Guidance/Manuals/downloads/som107ap_a_hospitals.pdf</u>. Updated 9-26-14. Accessed January 10, 2015.
- Holland DE, Knafl GJ, Bowles KH. Targeting hospitalized patients for early discharge planning intervention. *J Clin Nurs*. 2013; 22(19-20): 2696– 2703.
- 19. Bowles KH, Holmes JH, Ratcliffe SJ, Liberatore M, Nydick R, Naylor MD. Factors identified by experts to support decision making for postacute referral. *Nurs Res.* 2009; 58(2): 115–122.
- 20. Anthony MK, Hudson-Barr D. A patient-centered model of care for hospital discharge. *Clin Nurs Res.* 2004; 13(2): 117–136.
- 21. Agency for Healthcare Research and Quality. Strategy 4: Care Transitions from Hospital to Home: IDEAL Discharge Planning. <u>http://www.ahrq.gov/professionals/systems/hospital/engagingfamilie</u> <u>s/strategy4/index.html</u>. Accessed January 27, 2015.
- 22. Mistiaen P, Francke AL, Poot E. Interventions aimed at reducing problems in adult patients discharge from hospital to home: a systematic metareview. *BMC Health Serv Res.* 2007; 7: 47.
- 23. Reid R, Haggerty J, McKendry R. *Defusing the Confusion: Concepts and Measures of Continuity of Healthcare*. Ottawa, ON, Canada: Canadian Health Services Research Foundation; 2002.
- Weinberg DB, Gittell JH, Lusenhop RW, Kautz CM, Wright J. Beyond our walls: impact of patient and provider coordination across the continuum on outcomes for surgical patients. *Health Serv Res.* 2007; 42(1 pt 1): 7–24.
- 25. National Quality Forum (NQF). Preferred Practices and Performance Measures for Measuring and Reporting Care Coordination: A Consensus Report. Washington, DC: NQF; 2010. <u>http://www.qualityforum.org/Publications/2010/10/Preferred Practice</u> <u>s and Performance Measures for Measuring and Reporting Care C</u> <u>oordination.aspx</u>. Accessed January 27, 2015.
- 26. Mathews KS, Corso P, Bacon S, Jenq GY. Using the red/yellow/green discharge tool to improve the timeliness of hospital discharges. *Jt Comm J Qual Patient Saf.* 2014; 40(6): 243–252.

Journal of Nursing Administration, Vol 45, No. 12 (December 2015): pg. 606-614. <u>DOI</u>. This article is © Lippincott Williams & Wilkins, Inc. and permission has been granted for this version to appear in <u>e-Publications@Marquette</u>. Lippincott Williams & Wilkins, Inc. does not grant permission for this article to be further copied/distributed or hosted elsewhere without the express permission from Lippincott Williams & Wilkins, Inc.

- Hernandez N, Dinesh J, Mitchell J. A reimagined discharge lounge as a way to an efficient discharge process. *BMJ Qual Improv Report*. 2014; 3(10).
- 28. Coleman EA, Chugh A, Williams MV, et al. Understanding and execution of discharge instructions. *Am J Med Qual*. 2013; 28(5): 383–391.
- Weiss ME, Piacentine LB, Lokken L, et al. Perceived readiness for hospital discharge in adult medical-surgical patients. *Clin Nurs Spec*. 2007; 21: 31–42.
- Ali Pirani SS. Prevention of delay in the patient discharge process: an emphasis on nurses' role. J Nurses Staff Dev. 2010; 26(4): E1–E5.
- McMurray A, Johnson P, Wallis M, Patterson E, Griffiths S. General surgical patients' perspectives of the adequacy and appropriateness of discharge planning to facilitate health decision-making at home. J Clin Nurs. 2007; 16: 1602–1609.
- Coleman EA, Parry C, Chalmers S, Min SJ. The care transitions intervention: results of a randomized controlled trial. *Arch Intern Med.* 2006; 166(17): 1822–1828.
- 33. McBride M, Andrews GJ. The transition from acute care to home: a review of issues in discharge teaching and a framework for better practice. *Can J Cardiovasc Nurs.* 2013; 23(3): 18–24.
- Weiss ME, Yakusheva O, Bobay KL. Quality and cost analysis of nurse staffing, discharge preparation, and postdischarge utilization. *Health Serv Res.* 2001; 46(5): 1473–1494.
- 35. Paul S. Hospital discharge education for patients with heart failure: what really works and what is evidence? *Crit Care Nurse*. 2008; 28: 66–82.
- Ashbrook L, Mourad M, Sehgal N. Communicating discharge instructions to patients: a survey of nurse, intern, and hospital practices. *J Hosp Med.* 2013; 8(1): 36–41.
- Kelly L, Vincent D. The dimensions of nursing surveillance: a concept analysis. J Adv Nurs. 2011; 67(3): 652–661.
- 38. Tanner CA, Benner P, Chesla C, Gordon DR. The phenomenology of knowing the patient. *Image J Nurs Sch.* 1993; 25(4): 273–280.
- Kripalani S, Jackson AT, Schnipper JL, Coleman EA. Promoting effective transitions of care at hospital discharge: a review of key issues for hospitalists. *J Hosp Med*. 2007; 2(5): 314–323.
- 40. Naylor MD, Brooten DA, Campbell RL, Maislin G, McCauley KM, Schwartz JS. Transitional care of older adults hospitalized with heart failure: a randomized, controlled trial. *J Am Geriatr Soc.* 2004; 52(5): 675–684.

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- 41. Jack BW, Chetty VK, Anthony D, et al. A reengineered hospital discharge program to decrease rehospitalization: a randomized trial. *Ann Intern Med.* 2009; 150(3): 178–187.
- Berkowitz RE, Fang Z, Helfand BK, Jones RN, Schreiber R, Paasche-Orlow MK. Project ReEngineered Discharge (RED) lowers hospital readmissions of patients discharged from a skilled nursing facility. J Am Med Dir Assoc. 2013; 14(10): 736–740.

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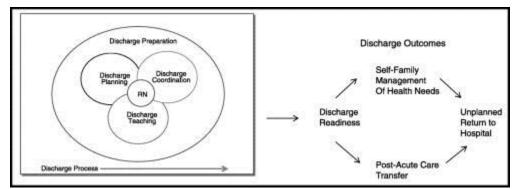


Figure 1. A conceptual model for hospital discharge preparation

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of Discharge Preparation	Project RED ²	Transitional Care Model ³⁻¹	Care Transitions ¹⁻¹	BOOST ^{1 3}	H2H (Hospital 2 Home) ^{6,7}
Targeted populations	All discharges	High-risk older adults: cognitive impairment or 2 risk factors (age, functional ability, consorbidities)	Elders	Partients with risk factor on MP screening tools (problem nuclearions, probabury, principal diagnosis, polypharmacy, poor health liarney, patient support, prior bioptalization in paor 6 nos, pallatine carri)	All heart failure and reyocardial infarction patients
Discharge planning	Assew need for and arrange language assistance That for obtaining medications Recordsr discharge plan per national guidefines	Comprehensive in-boopical assessment Streparations of evidence-based plan of care Comprehensive holistic locus	 Involved in decisions about care Knows glaubaest steps 	General Assessment of Preparedness Rick specific interventions linked to the MPs	Assess harriers to 7-d follow-up Assess buriers to medication management Simplify dosage regimen Assess medication access
Discharge coordination	Make appointments	 Ensuring continuity from hospital to home: home wisk and phore support 7.2 non-transitional Can- rases accomposing patient to 10 follow-up visit Corealization with primary care provider Antive engagement of patient and family Mathaceptinary approach emphysizing communication among patients, family, caregivers, and providers 		 Medication mechanismics Dickenge information communication to primary care provider, receipt confirmed Ourpostere follow-ug arranged Pollow-ug call writin 72 h Direct (phone) communication with primary ourpostere provider successed 	Prine no hospital dockarge, indiaes og appelærner skehelded wehn 7.d unts ompaniere provide or with cardiae relativitations for a outputiere visit Medication reconciliation Medication reconciliation
Discharge reaching	Review medications	Education and support for patient and family/caregivers	 Know medications/ adverse effects/ symptoms and whom to call 	 Teach back: medication one, self-efficacy, diagnosis, prognosis, self-care, action plan for symptoms and complication, discharge plan 	 Patient/caregiver provided with documented instructions and prescriptions, understands each medication and need for adherence to nied regimen
	 Teachineses understanding of discharge plan, obtaite on diagnosis Use a written plan Review what on do if them are probleme Telephone retriforcement 	Managing symptomotically identification Promote adf-management	 Understand red Hugs; is condition womening and how to respond Physician/mense answered questions 	• Writes discharge natroctions	 Educate about symptom and self-care management Patient man be able to moognize warning upps and have plan to address

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Name of Tool/Messare	Purpose	Content and Scoring	
Discharge planning: postdischarge need Early Screen for Discharge Planning	Discriminate between adults who will use specialized discharge planning	of weighted points for age; disability level using Rankin Disability Score (slight, aderate, or grower); Prior living status (loves alone); self-rand walking hiritation	
Blaylock Risk Assessment Screening Score	services by a discharge planter Mentification on administr of patients at tisk of prolonged hospitalization and in need of discharge planting resources	Weighted score for age; loving situation/minimal support; functional status; cognition, behavior patters; ensibility; sensory deficits; previous admissions/ED visite; active medical problems and dogs;	
Discharge Decision Support System (D ² S ²) BOOST 8Ps	Identify patients who should be referred for post-acute care Assessment of risk of adverse events after discharge	Algorithm calculates score based on walking limitation, well-rand health, age length of stay, namber of contextual condenous, depression limitestial invision similarity, problem indications, psychological, principal diagnoss, polyplanmacy, poor health literacy, patient support, prior heaptalization, pallutive care	
Transitional Care Model, screening criteria	events after userange Mentify patients in need of transitional care for the elderly	paraprimines, point matrix strates, paints support, point support, point supportants, parameter care Cognitive impaintent, or 2 of the following age 200 y moderate on severe hardword defacts tog HMBP score 2, KATZ e4, Lawton e5, an active balanciard and/or preframe hould house ing CMS s(3) e2 active consisting both conditiones (2) proceeding multicatores (2) Exoparatizations within the past 6 new a hospitalization within the part 30 d, madequate support system, how health bierses; documented history of massafference to the therappetic expression.	
Discharge planning: readmission risk LACE Risk of death or readmission within 30 d postdischarge		Stars of weighted potents for L = length of stay A = actet jennergenti adenisation C = Charlson converbidely index E = ED ruise is prior 6 mi	
Hospital Readmission Prediction Model	Readmission within 30 d postdischarge	1 of weigheed points: insurance status (Medicare, Medicaid, self-pay); currently matried; as a negator physician; Charlson connorbiday index; 54-12 physical component score; J admission which the pay reparat, current length of stay 3-2 d cific medical diagnoses or consorbiday index; ensmal bacht consorbidisis; filtens serviriy; rior use of medical aervice; overall health and function; sociadrongpathic factors, social committant of bealth.	
Rok Prediction Models for Hospital Readmission: Systematic Review	Semmarize factors included in systematic review of readmission tisk models		
pro. of m		Measures focusing on coordination between healthcare emitties, and over time; stransure, process, and outcomes; patient/tanily, professional, and outen perspectives. Generat number of masares related to communication from patient/annly perspective. Many focused on primary cardiolynesis illness care coordination	
National Volumnary Consensus Standards for Care Coordination	Performance incasarement	 Reconciled medications for ecerved by discharged patient Reconciled medications for ecerved by discharged patient Trautinon record includes all of the following: Appaint curve, research includes all or dynamic patients with rendra, discharge diagnosis Postilacharge/patient self-maragement: current medications, readin pending, patient instructions Advanced care plan, advanced directives or surrogate decision maker or masson me 	
стм	Quality of care transition our of the hospital listers the	d. Contact information/pluit for follow-up care 1497 contact for entropyrates, contact for pending uses, plan for follow-up, pennary provider for follow-up care (continue) 3. Timely manunitations of discharge second to primary care provider or next care facility within 24 h after discharge 4. Mitten Care Tasabitoss Moscow (CTM) within 30 d after discharge CTM-13: 4 subscalass critical understanding 68 https://promos.org/pennar 13 intent, instangement proparations (6 items), care plan	
	patienc's perspective	(2 item); Completed 6-12 wk after discharge CTM 3: 3 items from the CTM-15. Endorsed by the National Quality Forum.	
Jacharge teaching IDEAL Discharge Planning checkint	Provider checklase to increase patient and lamily organisment	1 = indude patient and family D = discuss fir at horse, neckatarsen, signs and problems, text routes, appointment E = chacters in plaint impaging about discuss, rest maps A = assess horse well physiciant and transe explaint and use teach hads L = bisers and horser system and family guids, preferences, observations, concerns	
Rapid Evaluation of Adalt Literacy in	Health Literacy Assessment	A 7-word recognition test	
Medicine—Short Form Quality of Discharge Teaching Scale	Parient perception of the quality of discharge teaching provided by survey over the course of hospitalization	e Discharge content model (6 terns); discharge content received (6 terns); delivery of teaching (18 items). Completed on day of discharge	
Sicharge preparation PRIPARED Instruments	Ausess the quality of discharge planning from different stakeholden perspectives ornefical practioners, residential care administrators, community service providers, patients, and ca	medication information (3 quantitation), preparation for coping pondischarge (2 quantines), control of discharge circumstances (2 quantises for putient, 1 for care). Compliand 1 wk ponducharge.	
Brief-PREPARED (B-Prepared)	Preparedness for hospital-discharge from the patient's perspective	Other forms analable to assess provider perspectives Self-care information about medications and accience (4 items); equipment and services (4 items); confidence (1 item); 7 of 11 terms relate to the amount of information received. Completed 1 wk postfacharge	
Jischarge outcomes Realitiess for Hospital Discharge Scale (RHDS)	Patient self-report of discharge readiness, news assessment of discharge readeness	Patient and nurse versions of the RHDS in long [21] iterest and short forms (8 items) for adult modical-surgical patients, patients of hospitalized children, and postpatian mothers Four-subsidies: Personal atoms (6 iterus), knowledge (8 iterus), perceived coping ability (3 iterus), especial surgers (8 iterus). Two iterus per subscale is short forms.	
Problems After Discharge Questionnaire- English	Problems and annet needs experienced in the postdischarge period	Completed on the day of hospital discharge. 47 kens is 8 subscribe information needs (15 timm); personal care (1 terms), hospital activity (7 term), nobing (5 timm); using equipment (1 terms), following instructions (1 terms), physical complaints (9 iterms), psychological complaints	
Pour-Discharge Coping Difficulty Scale	Patient self-report of level of difficulty coping at home after hospital discharge	(6 item): Completed 1 wk after discharge 10-frem scale. Completed 2-3 wk pointlischarge	