Implementation of a skilled nursing facility readmission review process

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ABSTRACT

30-day readmissions for patients at skilled nursing facilities (SNF) are common and preventable. We implemented a readmission review process for patients readmitted from two SNFs, involving an electronic review tool and monthly conferences. The electronic review tool captures information related to preventability and factors contributing to readmission. The study included 128 patients, readmitted within 30 days from 1 October 2015 through 1 May 2017, at a tertiary care academic medical centre in Boston, MA, and two partnering SNFs. There was a discrepancy in preventability rating between SNF and hospital reviewers, with 79.7% of cases not preventable by the SNF, and 58.6% by the hospital. There was moderate positive correlation between the hospital's and SNFs' preventability ratings ($r=0.652$, $p<0.001$). In most cases, the SNF reviewers felt that no factors contributed (57.8%), and hospital reviewers felt that issues with end-of-life planning (14.1%) and medical complexity (12.5%) were major factors. Despite the lack of strong correlation between SNF and hospital responses, several cross-continuum quality improvement projects were developed. We found that implementation of a SNF readmission review process employing bidirectional review by SNF and hospital was feasible, and facilitated systems-based improvement in the transition from hospital to postacute care.

INTRODUCTION

Readmission within 30 days of hospital discharge is common, affecting 20% of Medicare beneficiaries,1 and skilled nursing facilities (SNF) are the most common setting for postacute care in the USA.2 Medicare patients discharged to a SNF have a 25% likelihood of readmission within 30 days.3 In a review of 200 discharges to SNFs, 67% were rated as potentially preventable.3 A survey of SNF readmissions showed that patients felt that readmission was avoidable in 34% of cases, and that inadequate SNF treatment contributed to the majority of readmissions.4 Reducing potential preventable readmissions is critical because these hospitalisations are known to be associated with adverse events, higher healthcare costs and, most importantly, deleterious effects on quality of life.5-7 Publicly reported SNF performance measures have not been shown to be associated with hospital readmission rates reliably.3 There is evidence that discharge to a SNF with a strong linkage to the hospital is associated with lower readmission rates,9 10, and organisations have invested in developing high-quality SNF networks to foster collaboration.11

Most studies investigating the volume and preventability of SNF readmissions have focused on either administrative data or root cause analyses performed by SNFs.1–11 These studies have identified wide variation in readmission rates based on geography,2 and have attempted to quantify the proportion of potentially preventable readmissions.3 4 Meehan et al implemented a quality improvement (QI) project aimed at decreasing readmissions from SNFs that involved training SNF staff in QI and providing structured QI tools (Interventions to Reduce Acute Care Transfers).12 The study resulted in a decrease in readmissions in two of the five SNFs involved, and highlighted barriers to implementation including competing staff responsibilities, technology challenges and inadequate communication. To date, no study has been published presenting quantitative data that involves engagement and coordination of both hospital and SNF staff in QI efforts related to SNF readmissions.

In this manuscript, we describe the implementation of a QI initiative to review SNF readmissions by engaging both acute (hospital) and postacute (SNF) teams.11 Our hospital was involved in identifying ‘high quality’ SNFs based on publicly reported measures (Centers for Medicare & Medicaid Services five-star scores, and Massachusetts Department of Health scores) as well as self-reported quality metrics such as clinical capabilities and involvement in QI efforts; this intervention included two SNFs identified as high quality. We describe the multidisciplinary and multisite QI team that we created to investigate readmissions, and key initiatives that arose based on review of readmissions from...
two SNFs to an acute care hospital. We also captured the perspective of the staff of both SNFs and the acute care hospital as to the degree of preventability and contributing factors related to readmissions, and measured the degree of concordance.

**METHODS**

**Description of SNF readmission review process**

We designed a readmission review process for patients readmitted to Brigham and Women’s Hospital (BWH) from two SNFs (after discharge from BWH to SNF) included in the Partners SNF Quality Collaborative Network, a group of SNFs identified by Partners Healthcare as meeting specific standards for quality of care.11

The two SNFs were Spaulding Nursing and Therapy Center West Roxbury and Hebrew Rehabilitation Center, both located in Boston, MA. Readmissions within a 30-day period (patients were discharged from BWH to SNF, and readmitted back to BWH from SNF within 30 days) were included. The goal of the review was to, in the short term, understand factors that contributed to readmissions in order to, in the long term, ultimately address these factors to reduce readmissions. The review process had two main components: an electronic review tool and monthly conferences (see Figure 1 for process map). Every week when an SNF reviewed readmissions to BWH, SNF QI leadership (comprising two to three nurses and physicians) would complete an electronic review. The completion of

![Figure 1](http://bmjopenquality.bmj.com/)

**Figure 1** Readmission review process map. QI, quality improvement; SNF, skilled nursing facility.
a review by the SNFs would prompt an email to QI leadership at BWH (comprising four to five nurses and physicians) with a link to complete a readmission review from the hospital’s perspective. Reviewers were not involved in the initial care of the patient, providing objectivity to the review process, but were encouraged to reach out to those participating in clinical care in order to understand the facts of the case as needed. Both SNF and hospital electronic review data were reviewed and discussed at monthly hour-long webinar conferences with QI leadership from all facilities. Reviews from either the SNF or hospital that indicated that the readmission was preventable or potentially preventable were discussed. Particular attention was paid to cases for which there were discrepancies between the SNF and hospital reviews, with a focus on preventability.

The hospital and SNF electronic review tools were designed and implemented within the Research Electronic Data Capture (REDCap) platform (see online supplementary figures 1 and 2). Prior to designing the tool hospital leadership met with both SNFs included in this initiative to determine their current process for reviewing readmissions. Both SNFs reviewed readmissions for patients admitted to BWH on at least a monthly basis. One SNF used a standardised questionnaire to review readmissions for patients admitted to BWH on at least a monthly basis. One SNF used a standardised questionnaire to review readmissions, and the other SNF had a less formal process. Both institutions were open to incorporating a more formal electronic review process, due to the opportunity to discuss and learn from hospital feedback. Over the course of 4 months, several iterations of the readmission review tool were evaluated by QI leadership at all institutions. We incorporated a subjective assessment of preventability based on the reviewers’ understanding of the clinical situation, as well as specific questions addressing clinical circumstances, decision-making and communication. These questions were vetted with both hospital and SNF QI leadership and potential reviewers to mitigate bias and defensiveness with responses. Inclusion of contributing factors was based on commonly encountered reasons for readmission detailed by QI leadership. All reviewers participated in a training session regarding how to use the REDCap platform and complete the readmission review instrument.

Monthly review meetings included QI leadership, involved in completing the readmission reviews, from both SNFs and the hospital. Data on the completed reviews were abstracted directly from the REDCap database for review. Systems issues related to preventable readmissions and contributing factors were identified and potential solutions were discussed. Areas of care deficiencies were identified and assigned to QI leadership from both SNFs and the hospital to address and follow-up at subsequent monthly conferences. Discussion of follow-up items took place at the end of each monthly conference.

Study design and patient population

The readmission review process was implemented as a QI initiative at BWH, a tertiary care academic medical centre in Boston, MA. Institutional review board formal review and approval was not required as this initiative was implemented as a QI project. Reviews were collected from 3 November 2015 through 31 May 2017, which included readmissions from 1 October 2015 through 1 May 2017. Patients were identified by the SNFs weekly, based on internal tracking of readmissions to BWH. Patients initially admitted or readmitted to other hospitals were excluded. Reviews were completed the month after the readmission occurred.

Data sources and collection

REDCap was used to capture and abstract data related to demographics, comorbidities, admitting diagnoses, reasons for transfer, clinical stability, functional status, preventability and factors contributing to readmission. As applicable, additional clinical data were obtained from the BWH electronic medical record at the time of the completion of the electronic review by reviewers at the hospital. The SNFs obtained additional clinical information as needed from internal medical records. Compliance with completing the electronic readmission reviews was monitored by a project manager; 100% of reviews were completed.

Statistical methods

Patient demographic, clinical and readmission characteristics are reported as counts and percentages or median and IQR, as appropriate. Data regarding readmission preventability and contributing factors are presented as counts and percentages, and compared between SNF and hospital responses. A Spearman’s rank-order correlation was conducted to determine the relationship between the hospital’s and SNFs’ responses related to perceived preventability (preventable, potentially preventable or unpreventable) of a particular readmission.

RESULTS

Clinical and readmission characteristics

Table 1 shows the characteristics of the 128 patients included in the study, most of whom were discharged from the hospital to SNF 1 (86.7%). Only unplanned readmissions were reviewed (12.4% of total SNF admissions). The mean age was 73 (SD 14.9) years and 75.8% were male. Hypertension (60.2%), malignancy (35.9%) and coronary artery disease (29.7%) were the most common comorbidities. Most patients were discharged from surgery (25.4%), general medicine (23.4%), oncology (15.6%) or cardiology (12.5%). The significant majority (86.7%) of patients were thought to be clinically stable at the time of SNF admission by the accepting SNF providers. In most cases, a follow-up appointment did not occur or an acute care provider was not contacted prior to readmission (approximately 80%). The mean days to hospital readmission was 10.9 (SD 11.3). The most common primary reasons for readmission were infection (21.1%), gastrointestinal (16.4%) and respiratory (14.8%) issues.
Preventability and contributing factors

Responses from the SNF providers and hospital providers related to preventability and contributing factors are depicted in table 2. There was a discrepancy in rating of preventability between the SNF and hospital providers; 79.7% of cases were rated not preventable, 18.8% potentially preventable, 1.6% preventable by the SNF, and 58.9% of cases were rated not preventable, 35.9% potentially preventable, 5.5% preventable by the hospital. The hospital more often felt that improved communication with the clinical team and acute care stakeholders could have possibly prevented readmission (hospital 14.1%, SNF 7.0%) and felt that if readmission were known beforehand management could have been different to prevent readmission (ie, there was an action that could have been undertaken to prevent the readmission) (hospital 29.7%, SNF 20.3%). As shown in table 3, there was moderately positive correlation between the hospital’s and SNFs’ responses, which was statistically significant (rs=0.652, p<0.001).

The SNF reviewers felt in the majority of cases that there were no contributing factors to the readmission (57.8%), whereas the hospital reviewers felt that there were no contributing factors in 28% of cases. The hospital reviewers felt that issues with goals of care planning/end-of-life management, medical complexity and being discharged too soon from the hospital were other common contributing factors. With less frequency, the most common contributing factors from the SNF perspective were issues with goals of care planning...
or end-of-life management, outpatient treatment coordination and family being unprepared for transition.

### Readmission rates and outcomes

The total number of readmissions and readmission rates at both SNFs (preventable, unpreventable and both, see online supplementary figures 3 and 4) was unchanged over the course of the implementation period. SNF 1 readmissions per month ranged from 2 to 11, SNF 2 readmissions per month ranged from 0 to 3. We have focused on five major initiatives identified as a result of the readmission review pilot as outlined in Table 4; these initiatives were designed based on specific contributing factors identified and discussed during monthly review sessions with both hospital and SNF teams. First, we organised tailored trainings for SNF staff on how to remotely access the hospital electronic record via a pre-existing provider portal to have a more complete understanding of the patient’s inpatient care. We requested a specific flag within this electronic record to alert the SNF staff of the patient’s needs and to facilitate timely communication with the hospital team.

### Table 2 Preventability of readmission and factors contributing to readmission

| Preventability of readmission   | SNF providers (n, %) | Hospital providers (n, %) |
|---------------------------------|---------------------|--------------------------|
| Not preventable                 | 102 (79.7)          | 75 (58.6)                |
| Potentially preventable         | 24 (18.8)           | 46 (35.9)                |
| Preventable                     | 2 (1.6)             | 7 (5.5)                  |

| Did the patient have a clinical condition(s) that clearly required the patient to be cared for in an acute setting? |
|-----------------------------------------------------------------------------------------------------------------|
| Yes                                                                | 112 (87.5)          | 111 (86.7)               |
| No                                                                 | 16 (12.5)           | 17 (13.3)                |

| If the patient’s readmission was known 24–48 hours beforehand, was there anything that could have been done differently that might have prevented the readmission from occurring? |
|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Yes                                                                 | 26 (20.3)           | 38 (29.7)                |
| No                                                                 | 97 (77.6)           | 90 (70.3)                |
| No response                                                        | 7 (5.5)             | 0 (0.0)                  |

| Could better, proactive, timely communication with the clinical team (moonlighter, covering MD, RN, therapist, and so on) as well as acute care clinical stakeholders (ED, consultant, PCP, surgeons) have possibly prevented this readmission from happening? |
|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Yes                                                                 | 9 (7.0)             | 18 (14.1)                |
| No                                                                 | 112 (87.5)          | 110 (85.9)               |
| No response                                                        | 7 (5.5)             | 0 (0.0)                  |

| Factors contributing to readmission                                  |
|---------------------------------------------------------------------|
| No contributing factors                                             |
| Issues with goals of care planning or end-of-life management         | 9 (7.0)             | 18 (14.1)                |
| Outpatient treatment coordination                                   | 5 (3.9)             | 3 (2.3)                  |
| Family unprepared for transition to SNF or requested transfer       | 8 (6.3)             | 1 (0.8)                  |
| Medical complexity                                                  | 4 (3.1)             | 16 (12.5)                |
| Patient discharged too soon from hospital*                          | 9 (7.0)             | 13 (10.2)                |
| Unnecessary for ED to admit patient to acute care                   | 3 (2.3)             | 6 (4.7)                  |
| Failure or delay in diagnosis/treatment at SNF                      | 2 (1.6)             | 11 (8.6)                 |
| Patient admitted to wrong level of care                             | 1 (0.8)             | 0 (0.0)                  |
| Patient non-adherent to medical treatment                           | 2 (1.6)             | 2 (1.6)                  |
| Issues with communication with acute care team                      | 2 (1.6)             | 5 (3.9)                  |
| Unnecessary transfer to ED/acute care                               | 2 (1.6)             | 2 (1.6)                  |
| Medication/pharmacy related                                         | 1 (0.8)             | 11 (8.6)                 |
| Other†                                                              | 33 (25.8)           | 38 (29.7)                |
| No discharge summary at time of admission to SNF or lack of accurate discharge summary | 0 (0.0)             | 6 (4.7)                  |

*Included only in second iteration of data collection (64 of 128 patients) and percentages are not representative of entire sample.
†Included twofalls at SNF, four Foley catheter-related infections and one suboptimal monitoring of oral intake at SNF.
ED, emergency department; MD, medical doctor; PCP, primary care provider; RN, registered nurse; SNF, short-term nursing facility.
provider portal, similar to the hospital electronic health record version, which provides easy access to advanced care planning documentation as well as information about whether patients have a care manager (who can be contacted for assistance with care needs). Both SNFs implemented a coversheet for SNF patients attending outpatient visits to encourage providers to call the SNF before readmission. Finally, a group of SNF and hospital staff implemented a serious illness conversation checklist, previously developed at BWH, to be used at the SNFs to address goals of care with patients. These initiatives arose as a result of the contributing factors identified from the structured readmission review process, and we believe will have a long-term impact on reducing readmissions and improving care for patients.

**DISCUSSION**

In this QI initiative study, we found that implementation of a structured readmission review process involving completion of an electronic review tool and monthly conferences by the hospital and SNFs was feasible, and enabled both groups to obtain data and work on systems issues related to preventability and contributing factors to readmission. Our study is unique in that it involves a timely standardised review process employed by both acute and postacute staff, and provides an opportunity to compare responses across the care continuum.

Preventability associated with readmission is by nature subjective. Studies to date that have illustrated that a significant number of readmissions are potentially preventable have been retrospective and conducted by SNF staff alone. The Protecting Access to Medicare Act and the Skilled Nursing Facility Value-Based Purchasing Program are based largely on the SNF 30-day all-cause readmission measure, which highlights the need for further study related to preventability and the need for more expansive tools that extend across the acute and postacute care continuum. Based on this legislation, both hospitals and SNFs will be accountable for SNF readmissions, aligning some incentives. However, without coordination and communication between acute and postacute facilities, alignment of payment for performance may not meaningfully improve care for patients.

**CONCLUSIONS**

The findings of our study related to preventability highlight that there is a lack of clear agreement between providers across the care continuum about what constitutes a preventable readmission. The SNFs felt that cases were not preventable significantly more often than the hospital. There were two common themes that arose during monthly conference discussions. First, that the hospital staff had greater access to the patients’ health

| Practice initiative                                      | Description                                                                 |
|----------------------------------------------------------|-----------------------------------------------------------------------------|
| EpiCare Link implementation at SNFs                      | Provided and trained SNF staff regarding access to hospital medical records |
| Flagging patients who are high risk                      | Added a flag within the electronic medical record regarding those patients who have an integrated care manager to enable SNFs to make contact about complex patients |
| Flagging patients’ MOLST/HCP status                     | Added a flag within the electronic medical record regarding those patients with MOLST and HCP documentation completed |
| Serious illness checklist conversations                  | Provided training and launched a serious illness checklist intervention (related to completing serious illness conversations with patients to assess goals of care) |
| Outpatient visit SNF coversheet                          | Established coversheet for SNF patients attending outpatient visits to encourage providers to call, if appropriate, the SNF before sending patients to emergency room for readmission |

HCP, healthcare proxy; MOLST, Medical Orders for Life-Sustaining Treatment; SNF, short-term nursing facility.
records (across the care continuum) and could foresee issues that the SNF was unable to. For example, the ability to review medication lists at the time of hospital admission and discharge enabled hospital staff to discover medication discrepancies that contributed to readmission. Second, hospital reviewers were not familiar with SNF capabilities and did not have access to SNF medical records, which influenced the perception of preventability. For example, a lack of palliative care resources at the SNFs made it challenging to address challenging goals of care situations. Regardless of the reasons for divergent views on preventability, it was valuable to discuss discrepancies and identify potential contributing factors to readmissions. Surprisingly, improved communication between the acute and postacute teams was thought to have potentially prevented readmission in a minority of cases, which may reflect already strong communication channels between institutions. Some important contributing factors were highlighted as a result of this review process: goals of care planning, medical complexity, premature discharge from the hospital and suboptimal outpatient treatment coordination. These are areas that we have or are planning to address to potentially reduce future readmissions. The fact that we did not see a drop in readmissions during the implementation period is important to highlight. This may reflect the fact that: (1) with high-quality SNFs, the cases that are preventable are challenging to address as ongoing process improvements at these institutions largely mitigate readily preventable readmissions; (2) the focus in this pilot phase was on the process itself as opposed to the lessons learnt; (3) an assessment of the lessons learnt and implementation of quality initiatives will result in readmission reduction in the future. We feel that the latter is most likely, and will continue to trend readmission rates as the initiatives we have outlined are fully implemented.

Our QI initiative has several strengths. We leveraged our high-quality SNF network, and piloted this process with two of our highest performing SNFs with a significant volume of BWH patients, who already had programmes committed to improving their quality of care on an ongoing basis (eg, continuous physician or nurse practitioner coverage and internal review meetings). In addition, we conducted reviews in a timely, prospective manner, within a month’s time frame from initial admission to readmission. This timeliness of review enabled more accurate and less biased reflection regarding preventability and contributing factors. Also, reviewers had not been involved in the care of the patients and thus may be more subjective. Input from both the hospital and SNF was central to our review process, and provided the opportunity to obtain a fuller picture of contributions to a readmission. Finally, the opportunity to discuss cases after a structured review offered the ability to converse about cases in detail and learn from sometimes disparate opinions; we feel that this is a particularly important element of postacute to acute readmission care and should be considered for future QI initiatives in light of upcoming regulations.

LIMITATIONS

There are a number of limitations of this QI initiative. First, we implemented this readmission review process at a single academic medical centre with two high-quality SNFs. It is important to test the feasibility of implementation at additional sites, and at community-based hospitals. In addition, the SNFs involved were greatly motivated to improve their process of care based on their inclusion in the Partners SNF Quality Collaborative Network, and trialling a similar process with less motivated SNFs could be more challenging. Second, the reviews submitted were inherently subjective, likely shaped by the reviewers’ own clinical experiences. However, we aimed to mitigate biases by establishing the monthly review sessions during which open, bidirectional feedback was employed. Third, during discussions we found that the SNF reviewers were often focused on preventability at the SNF as opposed to the entire system of care, whereas the hospital reviewers were focused on the latter. Finally, this current process outlined does not include any direct feedback from the patient or involved family, which is often a key factor in cases of readmission. A future version would include a survey option for patients and families.

IMPLICATIONS

Our study provides evidence of the importance of implementing a structured QI process for readmissions from SNF back to hospital, involving both acute and postacute staff, in order to identify areas of disagreement and agreement with respect to preventability and contributing factors. Further study is needed to illustrate whether such a formalised process could effectively reduce readmissions and improve care.

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