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Medication Use in the Transition from Hospital to Home

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Abstract

After hospital discharge, correct understanding and use of medications are key components of patient safety. The current discharge process does not provide adequate fail-safes to ensure quality post-discharge care. This often leads to preventable medication errors as well as non-adherence. Several barriers to successful discharge counseling, including use of medical jargon, lack of educational and administrative resources, time constraints, and low health literacy, contribute to ineffective communication between hospital physicians and patients. Other obstacles include inaccurate or incomplete documentation of the medication history, lack of social support, financial constraints, and poor transfer of information to outpatient physicians. Solutions to improve medication use in the transition period after hospital discharge require effective communication with patients through the use of easily understood language, highlighting key information, and ensuring patient comprehension through the "teach back" technique. More timely communication with outpatient physicians in addition to a more comprehensive transfer of information further facilitate the transition home. Finally, a systematic process of medication reconciliation also aids in decreasing the incidence of medication errors. Hospital-based physicians who attend to key details in the process of discharging patients can have a profound impact on improving medication adherence, avoiding medication errors, and decreasing adverse outcomes in the post-discharge period.

Keywords

medication adherence; patient education; communication; hospital medicine; medication reconciliation

Introduction

Hospital discharge can be a complex and challenging time for physicians and patients alike. Patients are being discharged sooner, often in the process of convalescence rather than at baseline health status. This requires physicians to more effectively communicate instructions for post-discharge care to patients, family members, and outpatient providers. A comprehensive review on improving all aspects of this process is beyond the scope of this article; we will focus specifically on improving medication use. Patients are very susceptible to medical errors in the days immediately following hospital discharge. Forty-nine percent of hospitalized patients experience at least one medical error following discharge, most commonly involving medication use. An estimated 19–23% of patients suffer an adverse

drug event (ADE) after discharge.^{3–5} Most of these errors and ADEs could be prevented through better communication.^{2, 3} This commentary will discuss several common barriers to proper medication use after hospital discharge and review potential solutions based on the experience in the United States.

Barriers to Safe and Effective Medication Use

Inaccurate Documentation of Medications

Medication-related problems after hospital discharge sometimes begin with an inaccurate or incomplete medication history upon hospital admission. The quality of the medication list is influenced by interviewer skills, patient's knowledge, availability of prior documentation, and time constraints.^{6, 7} Moreover, multiple hospital personnel may take a medication history and construct inconsistent lists that are never reconciled. Half of patients have at least one unintended medication discrepancy on admission, 39–45% of which are deemed potentially harmful.^{8, 9} The most common discrepancy is omission of a home medication.¹⁰

During hospitalization, documentation of medication changes, their rationale, and whether changes are temporary or permanent, is often lacking. Medications may change for a number of reasons. Acute illness may require that a medication be held, changed, or stopped altogether. Prophylactic temporary medications intended only for the inpatient stay may inadvertently remain on the medication list at discharge. Restricted hospital formularies often lead to substitution of medications on admission, which may not be switched back to the outpatient drug upon discharge. ¹¹ Transfers to different hospital wards, or changes to the regimen for surgical procedures, add further opportunities for discrepancies and errors that can persist through and beyond discharge.

Ineffective Physician-Patient Communication

Medication mismanagement after hospital discharge is often related to poor communication of discharge instructions. When physicians counsel patients at discharge, they typically present a large amount of information in a short period of time. This information may be laden with medical jargon, which patients and their family members struggle to understand. ^{12, 13} Moreover, physicians tend to overestimate patients' comprehension and may not provide enough opportunity for patients or family members to ask questions. ¹⁴ Physicians expressly confirm patient understanding only 15% of the time. ¹⁵ As a result, patients often return home from the hospital without complete and accurate understanding of their diagnoses, key test results, or discharge medication regimen. ^{16, 17}

This is particularly common when patients have limited educational attainment or health literacy, which refers to the ability to understand and act on health information. ^{18, 19} Even in industrialized nations such as the United States, approximately one-third of adults lack sufficient levels of health literacy to understand common medication instructions. ²⁰ Language barriers and culturally diverse expectations may also limit patients' comprehension and adherence. Finally, hospitalized patients may have transient or persistent cognitive impairment, which limits comprehension and memory. ²¹

Poor Physician Handoffs

Poor communication may also occur among physicians at hospital discharge, when the responsibility for patient care is passed from the inpatient to outpatient provider. Transfer of information is most commonly done through discharge summaries. However, these documents may suffer from poor handwriting, delays in their preparation, and missing or erroneous information. ²² For example, discharge medications are absent from 2–40% of summaries. ²² Delays in receipt of discharge summaries also pose problems with medication

management at follow-up appointments. About 75% of the time, patients contact or visit the primary care physician (PCP) before the discharge summary has arrived.²² The PCP has to then determine, with limited information, which medications were stopped and why, as well as reasons for any new prescriptions.

Lack of Social Support

Upon returning home, patients are often required to assume new self-care responsibilities. However, many lack adequate social support, which makes it difficult to perform necessary self-care tasks, including medication management, particularly if their functional status is limited. As a result, many patients are unable to comply with post-discharge medication regimens despite comprehending their instructions. Patients prescribed more than 5 medications may experience added difficulty, and they are also at greater risk of ADEs. ^{23, 24}

Medication Costs

Medication costs also pose a significant burden when patients are required to pay a large share of this expense. Many patients on a fixed monthly income simply cannot afford to purchase several new medications, and about 20% of discharge prescriptions may go unfilled.²⁵ Other patients try to make medications last longer by taking them less frequently than prescribed. Unfortunately, physicians often are unaware of the cost of the medications they prescribe, and they may be unaccustomed to having open conversations with patients about medication costs.^{26–28}

Many insurance companies in countries like the United States or government subsidized medication programs in other locations like Singapore, have restricted or tiered formularies which offer lower co-pays for certain medications and not others. Many physicians and patients are unaware of the formulary restrictions and tiered costs, and do not routinely use this information to guide prescribing. This can contribute to higher out-of-pocket costs for patients, which leads to lower adherence.

Solutions

Medication Reconciliation

Better documentation of the patient's medications reduces ADEs during and after hospitalization. ^{29, 30} Medication reconciliation is the process of comparing the patient's medication list to what he or she should be receiving, and resolving any discrepancies (Figure 1). This should occur daily throughout hospitalization, especially during transitions of care such as transfer to another ward or discharge, when errors most often occur. ³¹ This process actually starts on admission, when it is important to obtain an accurate medication list by soliciting information from the patient, caregivers, pharmacies, pill bottles, and outpatient records or physicians. (See Table 1 for suggestions on improving the admission medication history.) Once the pre-admission list is confirmed, it should be written on a standardized form and placed in a consistent and prominent place in the chart. The intended plan for each medication should be explicitly stated (i.e., continue, discontinue, or change dosing). The purpose, planned duration, and dosing of each medication should also be listed. Resources to facilitate medication reconciliation, including sample forms, are available online. ^{32–34}

At discharge, medication reconciliation should identify and resolve differences between discharge medications and pre-admission medications. Attention should be given to several common discrepancies that can confuse the patient's transition home if left uncorrected. For example, medications may be duplicated if the patient receives both a generic and branded version (e.g., if the patient already has the generic version at home and receives a new

prescription at discharge for the same medication, but under a different branded name). A similar problem may occur if a brand is substituted due to hospital formulary restrictions, and a prescription for the new brand is written at discharge. Changes to the dose or frequency, as well as addition or deletion of medications, should be documented carefully. A new medication should be clearly marked as "New" and a specific comment made if it is replacing a previously taken medicine. Medications that were stopped should still be listed with a line through them and "Stop," plus the reason for stopping them noted. The reason for each change, no matter how obvious, should be listed for the understanding of both the patient and outpatient provider. In addition, the purpose of each medicine should be documented in easily understood language. Grouping medications together by purpose rather than alphabetically or in a random fashion will also help the primary provider better comprehend the plan of care and serve as another "check" on the system to screen for omission or duplication errors.

The responsibility for medication reconciliation ultimately lies with the treating physician. However based on the hospital's resources, specific tasks can be done by various members of the healthcare team, including pharmacists, nurses, and physician assistants. Responsibilities must be well-defined and should be complementary rather than duplicative. Pharmacists may be the ideal people to perform these activities, given their formal training in eliciting medication histories and counseling on their use. Using trained nursing staff and pharmacists to elicit admission medication histories, accuracy of admission medication orders increased from 40% to 95%. Another study showed that an intervention consisting of pharmacist medication review, patient counseling, and post-discharge telephone follow-up reduced preventable ADEs in the 30-day period after hospital discharge (1% in the intervention group vs. 11% in the control group, p=.01).

Improving Physician-Patient Communication

When providing discharge instructions, physicians and other healthcare providers should make an effort to keep explanations simple and avoid medical jargon. ¹⁹ Given the large amount of information that could potentially be conveyed, it is preferable to highlight key points, repeat them, and confirm understanding of these essential items. This is best done through an approach called "teach-back," which involves asking the patient to repeat back their understanding of the instructions or to demonstrate a new technique (e.g. inhaler use). ¹⁵ Teach-back is considered one of the most effective methods for improving patient safety. ³⁶, ³⁷

Providing ample opportunity for questions is also important, as is the inclusion of all involved family members and caregivers, particularly because patients may leave the hospital with a physical or cognitive impairment and family may play an important role at home in managing the patient's medications. Giving take-home instructions that are written in everyday language can enhance recall of discharge information. ^{16, 17} Use of audiovisual materials or simple drawings made by the physician is also helpful. ^{38, 39} An interpreter may be needed when a language barrier is present.

Patients are generally most concerned with what they need to do. Therefore, physicians should highlight important medication instructions and changes in the medication regimen, such as dose changes, deletions, and additions. It may be appropriate to arrange specialized counseling for patients who are prescribed high risk medications (e.g., coumadin, antiarrhythmics, immunosuppressants) or medications that require special administration skills (e.g., insulin, low molecular weight heparin, inhalers).^{3, 23}

Informing patients about potential side effects and what to do if they occur can improve adherence and reduce unnecessary healthcare utilization after discharge. Such instructions

should be very specific, including how to treat the symptoms, when to stop the medication, when to call the physician, and when to go to the emergency room.

Improving Physician Handoffs

Effective transfer of information from the hospitalist to the outpatient provider at discharge should include timely, accurate, and complete documentation of discharge medications. This was rated one of the most important components of the discharge summary in a survey of outpatient providers. Usual information should include the dosage, frequency, route of administration, planned duration of use, and purpose of all medications. Reasons for discontinuing or changing any medications and indications for new drugs should be highlighted.

To help ensure timely and consistent communication of discharge information, hospitals are advised to take several steps. 22 First, confirm the name, address, phone number, fax, and/or email address for the primary care provider upon admission and include it in the discharge summary. Second, have a standard system in place for prompt delivery of patient information upon discharge. Third, on the day of discharge, alert the outpatient provider of the discharge and provide a reconciled list of medications with indications via email, fax, telephone, or linked electronic medical records. Providing the patient with the same list of medications can also help ensure this information will be delivered to the outpatient provider. Finally, send a detailed discharge summary to the outpatient provider within 7 days. Ensure that it includes the reconciled medication regimen with reasons for any changes and indications for medicines. Of course, other elements of the hospitalization must be communicated as well, and these issues are summarized in a recent systematic review.²² All of these steps tend to be performed as a one-way "information transfer," but ideally, they would involve a two-way "information exchange." Greater collaboration between inpatient and outpatient providers is thought to improve the effectiveness and continuity of care, as well as physician satisfaction.⁴¹

Providing Medical and Social Support

Often questions and problems aren't obvious until the patient returns home. Calling the patient by telephone a few days after discharge offers patients the opportunity to clarify medication regimens, report unforeseen problems in filling their prescriptions, or question new symptoms which may be medication-related. Home visits or home health nurses for the elderly or disabled afford the opportunity to see firsthand how medications are being stored and taken at home, and to discard old medications. 45, 46

Empowering patients and their families to participate in their post-discharge care is also important. In the Care Transitions Intervention, a "transition coach" helped patients and families take a more active role in their care and facilitate communication during the transition period after discharge. The intervention was effective in reducing rehospitalization rates at 30 days (8.3% vs. 11.9%, p<.05) and 90 days (16.7% vs. 22.5%, p<.05), and it also saved money (\$2058 USD vs. \$2546 USD, p<.05).

Addressing Medication Costs

Getting familiar with the climate of medication costs within your patient population will help with the problem of rising healthcare costs. Moreover, by prescribing medications from the least expensive tier of your patient's medication formulary when possible will reduce out-of-pocket costs. Using combination medications, when available, may not only cut the number of copays, but more importantly by decreasing the pill burden, may further enhance patient adherence.

Conclusion

Hospital discharges are high-risk periods for potential medication confusion and errors. A standardized team approach to discharge planning in tandem with effective and timely communication are the cornerstones of successful execution of this process. Ensuring patient comprehension of medication instructions should be an endpoint of discharge counseling, not just the act of delivering the information. Hospitalists partnering with outpatient physicians play a vital role in opening and maintaining 2-way communication to improve the exchange of information at points of transition and guarantee continuity of care.

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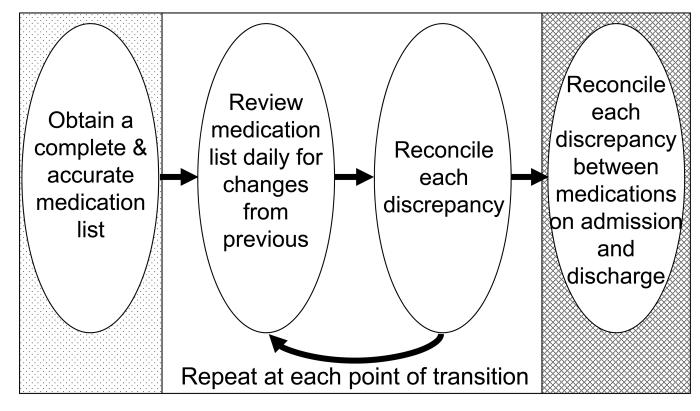
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Medication Reconciliation



Admission

Hospital Stay

Discharge

Figure 1.

Table 1

Questions to help elicit a complete and accurate medication history from patients and family members

1 What medicines do you take daily on a scheduled basis regardless of how you feel? When do you take them? What is each medicine for?

- 2 Do you take any medications only sometimes? If so, what symptoms prompt you to take them? How many doses per week do you take?
- 3 Do you associate taking medicines with specific activities (e.g., brushing teeth, meals, favorite television show) or times of the day (e.g., bedtime)?
- 4 How do you remember to take your medications (e.g., pill box, leave pill bottle by toothbrush, set alarm, line up pill bottles)?
- 5 How many times each week do you miss a dose?
- 6 Are any of your medicines in the form of patches, inhalers, suppositories, creams, drops, liquids, injectables, nasal sprays?
- 7 Do you take any medicines only weekly or monthly?
- 8 Do you go somewhere to receive medicines (e.g., erythropoietin with dialysis, vitamin B₁₂ shots in clinic)?
- 9 Do you take any medicines over-the-counter, such as herbals, vitamins, or dietary supplements?
- 10 How long have you been on each medicine?
- 11 What day of the month do you fill your medicines?
- 12 When did you take the last dose of each medicine?
- 13 When was the last time your dose was changed?
- 14 How many different physicians write you prescriptions?
- 15 Which pharmacies do you receive your medicines from? What are their phone numbers or addresses?
- 16 What medication allergies do you have?

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