Using the SafeMed Model to Improve Transitions of Care
Increasing engagement and adherence for complex patients.

AMA IN PARTNERSHIP WITH

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How will this module help me use the SafeMed model in my practice?

1. Four STEPS to develop and implement the SafeMed model
2. Answers to common questions about SafeMed
3. Tools to develop training materials and track progress

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Introduction

Complex patients, such as those with multiple chronic conditions, polypharmacy and unmet social needs, are particularly at risk for serious drug therapy problems during transitions from hospital to home. The SafeMed care transitions model uses intensive medication reconciliation and home assessments to manage high-risk/high-needs patients in the primary care practice who tend to be heavy utilizers of inpatient and emergency services. The SafeMed model leads to decreased hospital and emergency department utilization and improved outcomes for the target patient population.

Mr. S. was a 58-year-old Caucasian man with multiple chronic conditions and a history of depression and cocaine use. With the intensive support of all members of the SafeMed care transitions team at University of Tennessee/Methodist Le Bonheur Healthcare, he was able to get assistance with medications and homemaker services, meet his self-identified health goals, develop positive relationships with his providers and subsequently avoid rehospitalization.

The SafeMed model was originally developed at the University of Tennessee/Methodist Le Bonheur Healthcare and funded by a Health Care Innovation Award from the Centers for Medicare and Medicaid Services (CMS). The model was designed with the strengths of primary care in mind and relies on primary care-based team members, including physicians, pharmacists, nurses and community health workers, to form a support network for high-risk/high-needs patients as they transition from the hospital to outpatient setting. These team members work closely with patients to forge strong relationships that make it easier to coordinate and manage their care. This module provides guidance, tools and resources at no cost so you can adapt the SafeMed model for your practice.*

Four STEPS to building a SafeMed care transitions team

1. Develop your care transitions plan
2. Identify complex patients who are candidates for the program

3. Assemble and train your SafeMed team

4. Start the transition process and refine the plan over time

Develop your care transitions plan

Start holding regular team meetings to plan for the implementation of SafeMed. Think about how to scale the SafeMed model to fit your practice’s needs and to best take care of the patients who will benefit from your new program. You may want to consider working with multiple practices in your area to pool resources and create a SafeMed team as a shared community resource.

When you have a good idea of your practice’s capabilities and if and how you intend to work with a partner, review and think about how you’d like to modify SafeMed job descriptions, protocols and procedures to meet your target patients’ needs.

Q&A

How is SafeMed financed?

Most practice-based care transitions teams are funded internally by integrated delivery systems or health plans interested in improving their bottom line under accountable care and other value-based payment arrangements. Alternatively, you can seek funding to launch your SafeMed team from regional health improvement collaboratives, non-profits (e.g., American Heart Association) or federal agencies (e.g., CMS or the Agency for Healthcare Research and Quality) that are interested in supporting demonstration projects to improve quality while reducing costs. Some services can be billed to Medicare chronic care management services, which can help fund the program.

How can I identify and approach other practices to collaborate with?

Look for other practices in your integrated delivery system that serve socially and medically complex patients. You can use a collaborative agreement to initiate the conversation. This will help you spread the cost burden of hiring new staff.

Collaborative agreement form
(PDF, 169 KB)

Where can I find examples of materials I can adapt for my practice to develop my care transitions plan?

This module includes protocols and procedures, job descriptions, forms (e.g., an inpatient enrolment form, a patient eligibility checklist, a first home visit checklist, etc.), patient self-care tools, assessment tools and recruitment and training materials developed and made available by SafeMed.

You may also find aspects of the following STEPS Forward™ modules helpful:

- Building an intensive primary care practice
- Implementing team-based care
- Preparing your practice for change
- Medication adherence
Identify complex patients who are candidates for the program

Identify the most vulnerable patients who will receive the greatest benefit from intervention by the SafeMed team. If you have a smaller practice or only a few high-risk/high-needs patients, consider partnering with another practice to increase the size of your target population.

“I learned I couldn’t eat all that fried chicken any more. I learned about baked foods and seasoning like Mrs. Dash. You get used to it.”

SafeMed patient participant

Q&A

Which patients should my SafeMed program target?

A SafeMed approach is best suited for patients with:

- High utilization, defined as two or more hospital admissions or one inpatient admission and two or more prior emergency department (ED) visits in the last six months prior to current admission
- Two or more of the following conditions: hypertension, diabetes, coronary artery disease, congestive heart failure, asthma and chronic obstructive pulmonary disease
- Polypharmacy, defined as six or more medications at one time or high-risk medications such as diabetes medications, pain medications and blood thinners

These characteristics and criteria can be adapted to fit your patient population and to include additional patients you deem most at risk, such as patients with documented medication nonadherence or those identified by health plans as being in the top five percent of predicted risk for continued high cost.

Are there any patients who aren’t appropriate for SafeMed?

The SafeMed model was designed to have maximum impact for a very specific group of patients who have complex health conditions and frequently visit the hospital. You may want to exclude patients you lack capacity to serve or for whom care transitions programs are not likely to be effective, such as those with:

- Hospitalization related to cancer, pregnancy or surgical procedure
- Severe mental illness, for example, recent psychosis or suicidal ideation
- Severe substance abuse disorder
- Life expectancy less than six months
- Homelessness or unstable residence
- Planned discharge to another location other than home
- Severe cognitive difficulties and lack of caregiver assistance in program participation
Risk stratification can help you determine if these patients may be more appropriate for similar but less intensive services, for palliative, hospice or home care or for other community resources and programs.

3

Assemble and train your SafeMed team

Select a leader to champion the effort, designate team leads and hire any additional staff you need to make your care transitions plan work. The typical SafeMed team consists of three team leaders: a physician, nurse and pharmacist, plus two community health workers (CHWs), one pharmacy technician and one licensed practical nurse (LPN), medical assistant (MA) or health coach. Because the SafeMed team will work with the rest of the primary care practice team and local pharmacies to help patients effectively manage their conditions and medications, team members should be knowledgeable about practice workflows and chronic disease symptoms, signs, medications and treatment. All SafeMed team members should receive training in motivational interviewing, patient advocacy, transitions of care and mental health issues.

SafeMed protocols and procedures
(MS WORD, 1,894 KB)

Q&A

What are the roles of SafeMed care transitions team members?

A SafeMed team consists of the following people:

<table>
<thead>
<tr>
<th>Team member</th>
<th>Role and responsibilities</th>
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</thead>
</table>
| Team leader (MD, DO, advanced practice nurse) | • Oversees the whole SafeMed team, including supervision of outreach staff and regular staff evaluation  
• Fosters multidisciplinary teamwork  
• Provides medical expertise and assists with care coordination for complex patients  
• Convenes case review meetings on a bi-weekly basis |

Job description: Physician Leader
(MS WORD, 438 KB)

<table>
<thead>
<tr>
<th>Pharmacist team leader (PharmD)</th>
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|                                  | • Conducts initial and periodic medication reconciliation and medication therapy management  
• Completes SafeMed discharge note/continuity of care document with nurse team leader  
• Supervises and collaborates with pharmacy technician |
<table>
<thead>
<tr>
<th>Team member</th>
<th>Role and responsibilities</th>
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<tbody>
<tr>
<td>Team member</td>
<td>• Fosters multidisciplinary teamwork</td>
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<td></td>
<td>• Provides pharmaceutical expertise and assists with care coordination for complex patients</td>
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<tr>
<td>Nurse team leader (NP or RN)</td>
<td>• Screens and enrolls participants</td>
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<td></td>
<td>• Provides disease toolkits and disease state education</td>
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<td></td>
<td>• Completes SafeMed discharge note/continuity of care document with pharmacist team leader</td>
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<tr>
<td></td>
<td>• Supervises and collaborates with LPN, MA or health coach</td>
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<td></td>
<td>• Fosters multidisciplinary teamwork</td>
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<td></td>
<td>• Provides nursing expertise and assists with care coordination for complex patients</td>
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<tr>
<td>Job description: Nurse Leader</td>
<td>(MS WORD, 436 KB)</td>
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<tr>
<td>Certified pharmacy technician-community health</td>
<td>• Dedicated to SafeMed full-time</td>
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<tr>
<td>worker (CPhT-CHW)</td>
<td>• Assists pharmacist team leader in enhanced medication history (comprehensive medication review), medication</td>
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<td>reconciliation and medication therapy management in hospital and home</td>
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<td></td>
<td>• Conducts home visits</td>
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<td>• Supports patient education</td>
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<td>• Performs health coaching</td>
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<tr>
<td>Job description: Community Health Pharmacy</td>
<td>(MS WORD, 437 KB)</td>
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<tr>
<td>technician (CPhT-CHW)</td>
<td>License practical nurse-community health worker (LPN-CHW)</td>
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<td></td>
<td>• Dedicated to SafeMed full-time</td>
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<td></td>
<td>• Assists nurse team leader in patient engagement, symptom and physical assessment</td>
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<td></td>
<td>• Coordinates care</td>
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<td>• Identifies social needs</td>
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<td></td>
<td>• Conducts home visits</td>
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<td></td>
<td>• Supports patient education</td>
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<td></td>
<td>• Performs health coaching</td>
</tr>
<tr>
<td>Job description: Community Health LPN</td>
<td>(MS WORD, 434 KB)</td>
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<tr>
<td>Medical social worker (if available)</td>
<td>• Assesses social needs/underlying causes for readmission (e.g., mental health, substance abuse, housing)</td>
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<td>• Engages hospital case management/social worker</td>
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<td>(MS WORD, 435 KB)</td>
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How many patients is each SafeMed care transitions team assigned?

The University of Tennessee SafeMed program assigns 100 high-risk/high-needs patients to each two-person care transitions team. This averaged out to approximately eight new high-risk/high-needs patients per month and a panel of 20 to 25 active patients at any given time, with an average SafeMed transition lasting six weeks to four months. Depending on the size of your patient population and the capacity of your team members, this number may vary.

Do I need to hire more staff to form a care transitions team modeled after SafeMed?

Ideally, you would have outreach staff dedicated solely to care transitions work. The team leaders function as advisors and spend less time on SafeMed than the CHWs and will continue to fill their normal roles within the practice. Depending on your practice's staffing model, you may be able to re-purpose someone on your team who has the desired background and wants to take on a new role. If your practice has very few high-risk/high-needs patients who would benefit from this program, your practice may decide to incorporate the CHW role into the responsibilities of one of your current staff members.

What resources are available to supplement my team’s existing training to ensure they are ready for their new roles?

The physician, nurse and pharmacist team leaders can use the materials in this module to provide in-house, tailored training for the CHWs. Training in health coaching will also be valuable. In general, with on-the-job training, your outreach team should be ready to begin serving patients within three months.

4 Start the transition process and refine the plan over time

Use your hospital Electronic Health Record to identify high-risk/high-needs patients who meet your practice’s criteria so that they can be flagged for the transitions team immediately in the event of an ED visit or hospital admission. Running a daily report will help you to identify eligible patients in real time and begin the transition process.

Key performance metrics will indicate the impact of the care transitions team and highlight areas for further development or improvement. Use your results to make rapid cycle or longer-term improvements to the process.

I enjoyed everyone, and being called and being able to call for help getting into the doctor.

SafeMed patient participant

Q&A

How do I inform patients that they will receive transitional support services? What do I do if patients are resistant to the new approach?

You should not assume that patients will immediately sign up for the SafeMed program. The care transitions team must clearly explain the services and benefit to the patient. SafeMed experience in Memphis suggests that building rapport and enrolling patients while they are in the hospital is the most effective approach. It is easier to recruit patients when their primary care physician (PCP) supports and encourages their participation; the care transitions team will be able to introduce themselves as
representatives of the patient's regular doctor. Use the modifiable recruitment materials in the module toolkit to help you enroll patients.

Sample recruitment brochure
(PDF, 544 KB)

How long should patients participate in this program?

The patients you are targeting will require intensive engagement early on to make a difference and should be followed closely for a minimum 45-day intensive period. After the first 45 days, invite patients to participate for an additional three months (for a total of four and a half months). This will help make sure that they receive the maximum benefit from the program. Selected patients can be followed on an ongoing basis as needed or re-enrolled if they are readmitted or revisit the ED.

What key performance indicators could we track?

You may opt to monitor patients eligible for and participating in the program before and after implementation to track delivery of the following key program services:

- Recruitment rate (percent of eligible patients who agree to participate)
- Telephone follow-up rate within 30 days of discharge
- Home visit completion rate within 72 hours and within 30 days of discharge
- Primary care follow-up rate within 30 days of discharge
- Medication adherence for essential chronic disease medications

- Satisfaction of enrolled patients with the program. In addition, key utilization outcome measures can be tracked, including:
  - Emergency care utilization
  - Overall hospitalizations
  - Readmissions

Patient-centered care questionnaire
(PDF, 881 KB)

How long should home visits last and how often should they take place?

The length of a home visit will vary based on the needs of the particular patient, but in general, home visits should not last longer than one hour. The chart below details the core hospital and home visit activities included in the SafeMed care transitions model.

<table>
<thead>
<tr>
<th>Key SafeMed care transitions interventions</th>
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<tr>
<td>Week</td>
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</table>
## Week 1 Activities
Enhanced discharge preparation, planning, education and care coordination with outpatient providers and community resources

### Community-based
1. **1st home visit within 72 hours of discharge**
   - Symptom and physical assessment
   - Medication reconciliation
   - Medication therapy management
   - Identify and address social needs
   - Lead staff: NP/RN, PharmD, LPN-CHW, CPhT-CHW, SW/LPN-CHW

## Week 2 Activities
Phone follow-up and care coordination to ensure PCP appointment within 14 days of enrollment

### Community-based
2. **2nd home visit**
   - Symptom and physical assessment
   - Medication reconciliation
   - Medication therapy management
   - Identify and address social needs
   - Lead staff: NP/RN, PharmD, LPN-CHW, CPhT-CHW, SW/LPN-CHW

## Week 3 Activities
30-day phone follow-up

### Community-based
3. **30-day phone follow-up**
   - Lead staff: LPN-CHW, CPhT-CHW

## Week 4 Activities
In-clinic comprehensive medication review (30-45 days after enrollment)

### Community-based
4. **In-clinic comprehensive medication review**
   - Lead staff: PharmD (CPhT-CHW to schedule)

## Week 5 Activities
SafeMed support session: monthly peer support group and educational session open to all program participants on an ongoing basis

### Community-based
5. **SafeMed support session**
   - Lead staff: SafeMed team

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**AMA Pearls**

**Communication is essential**
Interdisciplinary teamwork and patient-centered communication are the keys to good primary care practice-based transitional care.

**Your outreach workers are the backbone of the SafeMed team**
Hire outreach workers who excel in patient-centered communication and rely on them.
Involve patients early and often
Engage your patients early on in continuous program improvement efforts so you can benefit from the beginning from the honest perspectives of the people you intend to serve.

Conclusion
The SafeMed model draws on existing primary care strengths and targets high-cost, high-risk/high-needs patients with a focus on medication and chronic disease management. By using proven methodology and team-based care approaches, practices can use SafeMed to simultaneously improve care and patient health while reducing costs.

STEPS in practice

Using the SafeMed Model in a Memphis, TN University: A Case Study

SafeMed is an initiative developed by the University of Tennessee in partnership with Methodist LeBonheur Healthcare and funded by a Center for Medicare and Medicaid Services (CMS) Health Care Innovation Award. The University of Tennessee Health Sciences Center in Memphis, TN, was the original SafeMed site. The program used in Memphis can be adapted by individual practices to:

- Reduce drug therapy problems
- Reduce patient morbidity and mortality resulting from preventable drug therapy problems
- Reduce avoidable hospital readmissions
- Lower costs
- Improve medication adherence
- Improve disease management
- Improve patient health

As part of the SafeMed program, a report is run every morning that indicates to the clinic which of its assigned patients has been hospitalized within the last 24 to 72 hours. This allows the SafeMed nurse leader to help determine which patients might benefit from SafeMed care transitions support so that home visits can be scheduled. Regular home visits are typically scheduled at two and four weeks post-discharge. The community health workers (CHW) are the primary point of contact for patients. The CHW meet with the SafeMed team
physician, pharmacist and nurse leaders on a daily basis, both in person and by phone, to address specific medication problems or care management issues identified during home visits. The CHW also meet with the SafeMed team leaders as a group on a weekly or monthly basis to conduct case reviews and refine care plans.

Program participants are invited to regular clinic-based SafeMed peer group support and educational sessions. Support session topics can be suggested by patients to meet their needs and may include speakers and discussions, but should primarily employ group problem-solving techniques. The support sessions are used to empower patients to ask questions and help them better navigate the health system. It is recommended that each patient remain in the program for a minimum of 3 months to receive the maximum benefit from the approach.

The SafeMed experience in Memphis reported by the University of Tennessee Health Science Center suggests that using a care transitions team model can have a very positive effect on a practice and its patients.

<table>
<thead>
<tr>
<th>WITHOUT SAFEMED</th>
<th>MEMPHIS EXPERIENCE WITH SAFEMED</th>
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<tr>
<td>Emergency department visits</td>
<td>Recently hospitalized super-utilizing patients with multiple chronic conditions experience on average six ED visits resulting in more than three hospitalizations in a 12-month period</td>
</tr>
<tr>
<td>Recently hospitalized super-utilizing patients with multiple chronic conditions experience on average six ED visits resulting in more than three hospitalizations in a 12-month period</td>
<td>30 percent fewer hospitalizations, 44 percent fewer 30-day readmissions, and 52 percent fewer ED visits in a 6-month period</td>
</tr>
<tr>
<td>Primary care visits</td>
<td>46 percent of patients report not having a regular primary care provider (PCP); fewer than 50 percent follow-up with a PCP within 30 days after discharge</td>
</tr>
<tr>
<td>More than 80% of recently hospitalized super-utilizing patients follow-up with their PCP or patient centered medical home (PCMH) within 30 days of discharge and most patients follow-up with their physician within 72 hours of discharge</td>
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<tr>
<td>Information from PCP</td>
<td>Patients perceive that the information from their PCP or specialist is not tailored enough to their situation and is inconsistent</td>
</tr>
<tr>
<td>Patients perceive that the information given by their providers is more tailored to their situation and consistent</td>
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<tr>
<td>Non-adherence or non-compliance issues</td>
<td>Providers are frustrated with patients who appear to be noncompliant</td>
</tr>
<tr>
<td>Providers are less frustrated with patients because they now understand the underlying social problems contributing to nonadherence</td>
<td></td>
</tr>
<tr>
<td>Provider relationships</td>
<td>Patients perceive that their relationship with their provider needs to improve</td>
</tr>
<tr>
<td>Patients perceive that their relationship with their provider is improved</td>
<td></td>
</tr>
</tbody>
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Using the SafeMed Model a Memphis, TN Patient Experience: A Case Study*

Mr. S was one of the first enrollees in the University of Tennessee/Methodist Le Bonheur Healthcare SafeMed program.

A 58-year-old Caucasian, Mr S had multiple chronic conditions, including coronary artery disease, congestive heart failure (CHF), chronic kidney disease and hypertension, along with a history of depression and cocaine use. He was initially admitted to the hospital because his automatic implantable cardioverter-defibrillator kept firing, causing him severe emotional and physical discomfort. Social risk factor screening indicated that he had low to moderate social support at home. Mr. S was on Medicaid and received government disability assistance.

His complex medical history and lack of social support made Mr. S a clear candidate for the intensive care transitions services provided by the SafeMed program. He met the program eligibility criteria and expressed interest in participating. Over the next three days of his hospitalization, Mr. S was visited by the SafeMed
program's lead NP, lead pharmacist, a pharmacy technician and a licensed practical nurse (LPN) community health worker. This team worked to develop rapport with Mr. S and assess his needs.

The pharmacist learned that because of his limited income, cost was a major barrier to Mr. S’s medication adherence. The pharmacist and pharmacy technician helped Mr. S simplify his medication regimen, made sure he was getting his medications at the lowest possible cost and reviewed his plan for obtaining his medications following discharge. At discharge, they gave him a Patient Friendly Medication List describing each of his medicines.

The team also learned that Mr. S had numerous negative healthcare experiences in the past, with specialists and primary care physicians. He didn't feel he could talk to a care provider without being judged about why it was difficult for him to follow medical advice, nor did he feel that they understood his situation. The NP and LPN community health worker counseled him on how to share his concerns with his physicians and worked with him to prioritize, schedule and arrange transportation for his outpatient visits following discharge. They also gave him educational materials, including a CHF Symptom Tracker to help him know when to contact the doctor. At discharge, the NP and pharmacist completed a brief SafeMed Continuity of Care Document/Discharge Summary and faxed this information to his primary care provider and cardiologist before his follow-up appointments.

Soon after Mr. S. was discharged from the hospital, he was mugged, resulting in a brief rehospitalization for a concussion and a broken leg. The SafeMed team was immediately alerted of his readmission via the daily eligibility report and Mr. S’s team members visited him once again.

A few days after his second hospitalization, Mr. S was visited in his home by the LPN community health worker. The community health worker reviewed his Patient Friendly Medication List and his CHF Symptom Tracker. When she employed teach-back techniques, she found that Mr. S had only a fair level of comprehension of the self-management care guidelines he had been given in the hospital. They discussed his care plan in greater detail along with his health goals. Mr. S identified outpatient medical follow-up as a priority, with secondary diet and exercise goals.

After the initial home visit, the LPN community health worker met with the entire SafeMed team at their bi-weekly case review meeting to discuss Mr. S’s needs and care plan. The input of the lead physician, NP, and pharmacist helped to refine the approach to Mr. S’s care. Most importantly, the team decided that the community health worker should attend Mr. S’s outpatient cardiology follow-up visit to assist him in communicating his concerns to the doctor. This made Mr. S more comfortable discussing issues regarding the circumstances that led to his defibrillator's repeated firing and he revealed to the cardiologist that the firing always occurred during sexual activity. As a result, the cardiologist was able to fine tune the device in response to patient’s activity level to help him avoid future unnecessary shocks.

As part of Mr. S’s ongoing care plan, the SafeMed staff facilitated communication between Mr. S and his Medicaid case manager. As a result, Mr. S was able to get the assistance he needed with medications and home services. With the help of concentrated counseling, ongoing education and a supportive care team, Mr. S is now meeting his self-identified health goals: attending his scheduled follow-up appointments, walking in his neighborhood and doing daily exercise for cardiac rehabilitation.

Mr. S looks back on his SafeMed experience positively, remarking that the SafeMed team helped him speak up for himself and get the care he needed most. The SafeMed staff was encouraged by their breakthrough with Mr. S. They noted that, like many of the medically and socially complex patients who participate in the program, Mr. S was not very receptive to help initially, but once he understood that the SafeMed team members were there to help him, he was able to take the actions he needed to gain control of his health and avoid further hospitalization.

*Disclaimer: The protected health information regarding Mr. S. in the case study above has been modified to protect patient privacy.*
CME Accreditation Information:
Increasing administrative responsibilities—due to regulatory pressures and evolving payment and care delivery models—reduce the amount of time physicians spend delivering direct patient care. Much of the cost burden in health care is created by patients with high utilization of emergency and inpatient services. These super-utilizing patients typically have multiple chronic conditions, polypharmacy and high social complexity (e.g., mental health issues, low health literacy, limited income, lack of transportation and low social support). One in five patients with chronic health problems also suffer from preventable drug therapy problems, including medication errors and nonadherence. Complex patients are particularly at risk for serious drug therapy problems and during care transitions from hospital to home. Managing super-utilizing patients and preventing drug therapy problems often falls on primary care providers once patients are discharged from the hospital. These patients and the practices that serve them are particularly likely to benefit from following the SafeMed care transitions model.

Learning Objectives:
At the end of this activity, you will be able to:
1. Define the SafeMed care transitions model and explain its effects on hospital and emergency department utilization and patient population outcomes
2. Identify complex patients who are candidates for the SafeMed care transitions model
3. Describe the individuals and roles needed to form a SafeMed team
4. Explain how to identify eligible patients and how to refine care transitions over time

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End Date:
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Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Article Information

*Disclaimer: These materials were developed and made available by SafeMed.

Target Audience:
This activity is designed to meet the educational needs of practicing physicians.

Statement of Competency:
This activity is designed to address the following ABMS/ACGME competencies: practice-based learning and improvement, interpersonal and communications skills, professionalism, systems-based practice and also address interdisciplinary teamwork and quality improvement.

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About the Professional Satisfaction, Practice Sustainability Group:
The AMA Professional Satisfaction and Practice Sustainability group has been tasked with developing and promoting innovative strategies that create sustainable practices. Leveraging findings from the 2013 AMA/RAND Health study, “Factors affecting physician professional satisfaction and their implications for patient care, health systems and health policy,” and other research sources, the group developed a series of practice transformation strategies. Each has the potential to reduce or eliminate inefficiency in broader office-based physician practices and improve health outcomes, increase operational productivity and reduce health care costs.

Disclosure Statement
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References


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