Innovative Models for the Evolving Home Health and Hospice Industry
ACKNOWLEDGEMENTS

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# TABLE OF CONTENTS

INTRODUCTION AND OVERVIEW: Demonstrating Value in New Care Delivery and Payment Models ................................................................. 1

CASE STUDY ONE: Medication Reconciliation and Care Coordination .................... 4

CASE STUDY TWO: WellSpan At Home .................................................................... 7

CASE STUDY THREE: Telehealth Initiative–A Partnership Between Two Healthcare Organizations ................................................................. 9

CASE STUDY FOUR: Independence at Home ............................................................. 12

CASE STUDY FIVE: Emergency Department U-Turn .................................................. 14

CASE STUDY SIX: The Integrated Care Model ............................................................ 16

CASE STUDY SEVEN: Primary Care Program .............................................................. 20

CASE STUDY EIGHT: Same-Day Joint Replacements .................................................. 23

CASE STUDY NINE: Post-Cardiothoracic Surgical Infection Prevention Program ................................................................. 25

CASE STUDY TEN: Cardiac Care Program with Link to Care Transitions Program ................................................................. 30
INTRODUCTION AND OVERVIEW: DEMONSTRATING VALUE IN NEW CARE DELIVERY AND PAYMENT MODELS

BACKGROUND

The Patient Protection and Affordable Care Act (ACA) delivery reform initiatives advanced new quality goals and payment models. Core among the ACA’s goals were to incentivize primary and acute care providers to prevent primary hospitalizations as well as unnecessary repeat hospitalizations. ACA implementation efforts have launched numerous pilot and demonstration programs to coordinate care through a variety of models including patient-centered medical homes (PCMHs) and Accountable Care Organizations (ACOs). As a result, providers at all levels are gaining new understanding of collaboration for quality improvement. Most important, providers are recognizing that these laudable goals cannot be achieved without strong engagement and support from providers who are in the local community, including in a patient’s home, who coordinate care among providers, who identify challenges before they become complications, and who support family members and other caregivers.

Home health care services play a critical role in achieving current health care policy goals to enhance care coordination among providers to extend care beyond the four walls of the physician’s office to prevent initial hospitalizations as well as beyond the hospital setting to support timely, efficient, effective and safe transitions that prevent re-hospitalization of post-acute patients. As more senior citizens enter the Medicare program and individuals with disabilities and chronic diseases live longer, home health care can play a key role in keeping beneficiaries healthy, improving health care quality and health outcomes as well as reducing unnecessary health care spending across our health care system.

The Medicare Payment Advisory Commission (MedPAC) reports that 3.4 million, or 9.5 percent, of traditional fee-for-service Medicare beneficiaries used home health in 2011. CMS data show that approximately 86 percent of home health users are age 65 or older, 63 percent are 75 or older, and nearly 30 percent are 85 or older. Of the patients who received home health care in 2011, 83.2 percent have three or more chronic conditions. According to MedPAC, in 2009, 35 percent of beneficiaries who had a prior hospitalization received Medicare home health while 65 percent were
community referral admissions. Of the 65 percent of community referral admissions, 19 percent were first episodes and 46 percent were re-certifications. Finally, a study conducted by the Alliance for Home Health Quality and Innovation, demonstrated that home healthcare and SNFs serve similar cohorts of patients, suggesting that patients could be appropriately placed in high quality, lower cost settings. In addition, the Alliance study notes that home health care is the least costly post-acute setting, representing 38.7 percent of all Medicare episodes using post-acute care first settings, but comprising only 27.8 percent of payments.

CASE STUDIES COMPENDIUM
VNAA member agencies are engines of innovation, actively engaged in various programs and partnerships to resolve breakdowns in care for patients with multiple chronic conditions, complex care needs and post-acute recovery requirements. ACA implementation activities have offered VNAA members significant opportunities to integrate services into new provider models. Members have engaged in creative partnerships and demonstration projects to evolve their practice to ensure sustainability in the future and success in business operations. This emphasis on changing and adapting new programs will become more important as health care continues to change.

This Case Study Compendium highlights the success of ten VNAA member agency collaborations and partnerships. The goal of this compendium, and of future additions, is to capture successful programs and share this wealth of knowledge with other agencies, policymakers and external stakeholders. VNAA seeks to identify nonprofit agencies leading the evolution of home health care and hospice services in new care delivery and payment models. It is VNAA’s desire that this information demonstrates the value of nonprofit home health and hospice to others across the continuum as a proven sub-acute provider.

ABOUT VNAA
The Visiting Nurse Associations of America (VNAA) exclusively represents nonprofit home health and hospice agencies. VNAA member agencies care for homebound patients with serious and often chronic conditions by providing a full array of health care services along with care coordination, management and prevention. Our members provide a vital link between patients, physicians and acute care settings and serve all patients without regard to their ability to pay or the severity of their illness.
VNAA members are a necessary part of the solution to improving quality and health outcomes and reducing costs in our nation’s health system.

The information in this Compendium supports VNAA’s vision of supporting, promoting and advancing nonprofit providers of community-based healthcare including home health, hospice and palliative care and health promotion services to ensure quality care in their communities. We hope you find this useful and welcome nonprofit home health and hospice agencies to submit additional case studies for future publication.

Tracey Moorhead
President and CEO
October 2013

CASE STUDY ONE: 
MEDICATION RECONCILIATION AND CARE COORDINATION

AGENCY: Concord Regional Visiting Nurse Association in Concord, New Hampshire

LEAD STAFF: Denise Martel, RN, MSN

AGENCY CEO: Mary DeVeau, RN, MSM

WEBSITE: http://www.crvna.org/

AGENCY DESCRIPTION
Concord Regional Visiting Nurse Association (VNA) is a not for profit, community-based healthcare provider that serves people of all ages in Central New Hampshire. Services provided include home care, hospice, personal home services, maternal and child health services, pediatrics and community health services.

PROJECT GOAL
Reduce hospitalizations for Medicare patients with multiple chronic conditions and many medications.

FUNDING
There was no external funding for this project.

POPULATION IMPACTED
The area and population impacted by this project are Medicare beneficiaries, primary people who have chronic health conditions and multiple barriers including polypharmacy and limited support systems, and multiple providers of care (primary care providers and subspecialists).

STRATEGIC PARTNERS
Concord Regional VNA worked with Dartmouth-Hitchcock Concord physicians and additional clinical staff. Dartmouth-Hitchcock screens patients for inclusion in the program and works with the Concord Regional VNA’s Home Health Nursing Care Coordinator to reconcile medications and coordinate care through both electronic communications and face-to-face meetings.
CASE STUDY ONE:  
MEDICATION RECONCILIATION AND CARE COORDINATION

PROJECT DESCRIPTION
In January 2012, Dartmouth-Hitchcock Medical Center was named a Pioneer ACO. Concord Regional VNA was exploring options to integrate the agency into a Medical Home Model to better serve Medicare beneficiaries who are at high-risk of being rehospitalized. In this program, rehospitalization is when a patient is admitted back into the hospital within thirty days of the initial hospitalization for the same illness. Concord Regional VNA’s Home Health Nursing Care Coordinator consulted with three Dartmouth-Hitchcock Medical Center Primary Care Providers (PCPs) to form a pilot group. The pilot group began to study Dartmouth-Hitchcock’s patient population and identified the need for medication reconciliation. Clinical support was requested and the group developed methods to capture critical data needed to best serve patients.

A pilot study started and developed a scope of service. The pilot has since expanded to include all Dartmouth-Hitchcock Concord PCPs.

RESULTS
The results of this study found that measures of success included improved patient education and enhanced relationships with providers regarding post-acute care. Concord Regional VNA and the PCPs shared information about patients and also quality metrics utilizing information technology, which allowed access to each organization’s records. This data sharing and technology allowed providers to improve care and communication.

OUTCOME MEASURES
During the first year of the project, Concord Regional VNA served 204 patients and made significant changes to quality reporting. The measures Concord Regional VNA reviews includes patient satisfaction survey results, re-admission rates, emergent care rates, reduction in medication errors during transitions of care, and the OBQI score for improvement in medication management. Concord Regional VNA created a note to track specific medication issues found during the Medication Reconciliation visit and interventions completed by the clinician. For this patient population, the rehospitalization rate was reduced from 27 percent to 24 percent. Other metrics addressed were: 1) Patient ability to take oral medications correctly increased from 38 to 58 percentage points and 2) Patient satisfaction on specific care issues has increasing from 81 to 87 percentage points.
CASE STUDY ONE:
MEDICATION RECONCILIATION AND CARE COORDINATION

BARRIERS TO IMPLEMENTATION
Concord Regional VNA encountered many barriers to successful implementation of the program. These include lack of communications, both among individuals: patients and providers and with electronic medical records incompatibility. Regulatory compliance issues also created barriers. Concord Regional VNA is not billing the Medication Reconciliation visit but needed to understand the scope of the visit from a nursing practice scope perspective. The nurse does not perform any hands-on care other than the medication reconciliation and assessment of the environment during the visit. If the nurse identifies a need and home care is not already ordered, then the clinician requests a homecare referral. Concord Regional VNA did not receive or secure any grants to fund this project. Lack of funds restricted some program aspects. Finally, patient refusal of care was a huge barrier to complete this project. Patients refused primarily because they did not feel they needed a visit. Concord Regional VNA experienced an increase in compliance when the physician practice called the patient and told them that their “physician ordered” the visit. Patients tend to not realize that they are struggling with medication management and how much it impacts their care.
CASE STUDY TWO: WELLSPAN AT HOME

AGENCY: WellSpan Visiting Nurse Association in York, Pennsylvania

LEAD STAFF: Michael Hamaker, MA,ACHE, President

CEO: Michael Hamaker

WEBSITE: http://www.wellspan.org/offices-locations/other-wellspan-locations/wellspan-vna-home-care/

AGENCY DESCRIPTION:
For over 100 years, WellSpan VNA has been serving the eastern Pennsylvania population. It is understood that the best place to treat the body is where the heart is—at home. Often times when patients are recovering from an illness or accident, are disabled, have a chronic illness or are terminally ill, they do not need to be hospitalized but do need health care assistance. Our specialized staff of nurses, aides, therapists and specialized caregivers work with physicians to provide the services necessary to treat patients in the comfort of their own home. WellSpan offers a wide range of home care services including, skilled nursing care; home health aides; physical, occupational and speech therapy; IV therapy; wound and ostomy care; phlebotomy services and more. Community Services program enables clients to remain at home, maintaining the quality of life in which they are accustomed to living private duty services are customized to fulfill the patients individual home care needs, including assistance with daily living, assistance with personal care, meal preparation, light housekeeping, and respite care

FUNDING:
There was a combination of funding for this project. Some patients were funded through the Wellspan VNA Foundation, private pay, Medicaid managed care, and some physician groups who helped support their highest risk patients.

POPULATION IMPACTED:
All at-risk patients.

STRATEGIC PARTNERS:
Critical Signal Technologies (CST). CST provides the technology and call center support. Further information on CST can be found at http://www.criticalsignaltechnologies.com/
CASE STUDY TWO:
WELLSPAN AT HOME

PROJECT DESCRIPTION
Starting March 1, 2013, all WellSpan VNA patients received a “nurse call button” that the client is asked to “push for any reason.” When the button is pushed, a call center interacts to the clients asking what they can do for them. Review discharge orders; Arrange for groceries to be delivered; or provide a medication reminder. The call center can also call the doctor for a new appointment on behalf of the patient: anything the patient needs. The goal is to provide discharge security in the home upon admission to home health. All patients receive the button for the first 60 days after hospital discharge with the option to extend the service.

RESULTS
To date, we have seen strong service improvement and rehospitalization rates. As of August 2013, 105 high-risk patients avoided the emergency department due to intervention.

OUTCOME MEASURES
To date, the average client pushes the button 3.4 times while on service within the first 60 days of being on service. The acute care hospitalization metric was reduced by four percentage points. However, it is unclear if this is just the client-button patients. It is very hard to determine if it is due to the button or nursing intervention. The organization is currently examining the results of the WellSpan At Home (WAH) patients and non-WAH patients.

BARRIERS TO IMPLEMENTATION
There were some technical issues with devices in the home and language barrier issues. CST would not have the exact language interpreter available when needed.
CASE STUDY THREE:
TELEHEALTH INITIATIVE—A PARTNERSHIP BETWEEN TWO HEALTHCARE ORGANIZATIONS

AGENCY: Visiting Nurse Association of Somerset Hills, Basking Ridge, New Jersey
LEAD STAFF: Marie Sperber, MS Director of Development and Marketing and Diane Brienza-Arcilla, RN, BSN, MSA, Director of Quality Care Management
CEO: Ann Painter, RN, MSN
WEBSITE: http://www.visitingnurse.org/

AGENCY DESCRIPTION
The Visiting Nurse Association of Somerset Hills (VNA) is a non-profit organization, founded more than a century ago, providing home and community health services to the residents of Morris and Somerset counties. It is accredited by CHAP (Community Health Accreditation Program), certified by Medicare and licensed by the New Jersey Department of Health and Senior Services.

The VNA of Somerset Hills mission is to provide individuals and families with comprehensive, high quality, cost effective home and community health care services, regardless of ability to pay, using partnerships where appropriate. This mission is carried out through the delivery of a variety of services, including home health care, hospice, adult day care and community health programs.

FUNDING
Funding was provided by Summit Medical Group (SMG). SMG pays a monthly management fee and equipment rental fee consistent with services rendered and the equipment being provided.

POPULATION IMPACTED
The population impacted by this project was SMG patients with Congestive Heart Failure (CHF) or Chronic Obstructive Pulmonary Disorder (COPD), identified “at risk” for hospitalization. These patients resided in the central New Jersey area and were able to use a telehealth monitor independently or with the assistance of a caregiver. Other criteria for inclusion in the study were: 1) CHF patients admitted to a hospital or Urgent Care Center (UCC) within the past 12 months and on a loop diuretic or 2) COPD patients admitted to a hospital or UCC within 12 months and on home oxygen or 3) SMG physician endorsed and provided patient-specific standing orders.
CASE STUDY THREE:
TELEHEALTH INITIATIVE–A PARTNERSHIP BETWEEN TWO HEALTHCARE ORGANIZATIONS

STRATEGIC PARTNERS
Summit Medical Group (SMG). Summit Medical Group is the largest and oldest physician-owned multispecialty practice in New Jersey. In addition to the main campus, SMG has satellite offices in five counties, employees more than 325 clinicians and 1500 employees addressing 76 medical specialties and services. SMG first opened its doors 85 years ago to focus on a patient-centered approach to care. More information can be found at http://www.summitmedicalgroup.com/.

PROJECT DESCRIPTION
The VNA of Somerset Hills (VNASH) partnered with SMG to reduce hospitalizations and emergency department visits, improve quality of care, improve coordination and transitions of care, increase patient self-management skills, reduce overall health care costs and provide an alternate revenue stream for the home care agency. Twenty-four heart failure and three COPD patients were admitted to the joint telehealth program. The program included 90 days of daily monitoring and education modules. Clients were instructed in the use of a “zone” tool to identify symptom severity and report to the same telehealth nurse. Standing orders set frequent communication between the telehealth nurse and SMG advanced practice nurses employed by the practice allowed for proactive outreach and early intervention for symptomatic patients. Twenty-two patients completed the program. Retrospective chart reviews were used to compare previous hospitalization rates at 30, 60 and 90 days. Additionally, participants completed a satisfaction survey, which included questions regarding the ability to self-manage their disease

RESULTS
The year-long project yielded a zero percent, 30-day readmission rate for these patients and high patient satisfaction. The program demonstrated a statistically significant decrease in the number of hospitalizations pre versus post intervention.

OUTCOME MEASURES
The impact of this project was that the number of hospitalizations decreased when comparing hospitalizations pre-and post-intervention. The VNASH/SMG Telehealth Program had NO hospital admissions within 30 days for the entire year-long program. When looking at all patients who completed three months on the program, there were 20 admits pre-intervention and four post-intervention; at six months (for all patients who completed six months post intervention) there were 28 admits pre-intervention and 12 post-intervention; at 12 months (for all patients who completed 12 months post intervention) there were 20 admits pre-intervention and six post-intervention. There were zero hospital admissions within the first 30 days patients were on the program, three admissions were documented within the period of 31-60 days on the program and one admission was in the period of 61-90 days on the program.
CASE STUDY THREE: TELEHEALTH INITIATIVE—A PARTNERSHIP BETWEEN TWO HEALTHCARE ORGANIZATIONS

Patient Activation Measure: 50 percent of patients in the program demonstrated improvement in their ability to manage self-care. In addition, patients were satisfied with the program: 21 patients completed the final survey about satisfaction and 91 percent of the patients strongly agreed or agreed that “Overall, I was satisfied with the Telehealth program.” The other two patients answered neutral on this question.

Potential cost saving estimated annually, using the Center for Medicare and Medicaid Services (CMS) average costs per hospitalization of potentially avoidable hospitalizations ($7,846), for 12 months equaled $109,844.

BARRIERS TO IMPLEMENTATION

The barriers to successful implementation were a small study sample due to limited and inappropriate referrals, and the need for more marketing to physicians and patients to help drive enrollment in the program. Study limitations were that selection criteria excluded patients expected to have limited benefit from the program based on multiple co-morbidities. In addition, patient activation measurement/satisfaction tools did not allow patients to answer surveys anonymously.
CASE STUDY FOUR: INDEPENDENCE AT HOME

AGENCY: Christiana Care Visiting Nurse Association in New Castle, Delaware

LEAD STAFF: Lynn Jones, FACHE

PRESIDENT AND CEO: Lynn Jones, FACHE

WEBSITE: http://www.christianacare.org/vna

AGENCY DESCRIPTION
Christiana Care Visiting Nurse Association (VNA) is a full service home health agency a wholly owned subsidiary of the Christiana Care Health system in Delaware. Average daily census is approximately 1600 and approximate annual revenue is $45 million.

FUNDING
Funding provided by the Center for Medicare and Medicaid Services (CMS) as part of the Independence at Home Demonstration project. This project is authorized under section 3024 of the Affordable Care Act (2010).

POPULATION IMPACTED
Focus on frail elderly patients residing in the greater Wilmington area.

STRATEGIC PARTNERS
Close collaboration with the system’s physician home visit program; with community hospice providers; with community PCP's and specialist practices; with community hospitals; with numerous other community based services

PROJECT DESCRIPTION
Christiana Care VNA has completed the first year of a three-year “gain sharing” model. Much of the focus has been in recruiting and enrolling the required number of patients to meet the CMS required level of 200 patients who are part of the program. Christiana Care has focused efforts on the five key quality indicators that are required as part of this project. Finally Christiana Care’s focus on integrating the efforts of its home physician visit program and VNA care to optimize quality, patient experience and the impact on reducing overall costs of care by reducing avoidable readmissions and other non-value added services.
CASE STUDY FOUR: INDEPENDENCE AT HOME

RESULTS
Results will be closely tracked over the coming two years of this project and include the numbers of patients; key quality indicators and looking at various other quality indicators and costs of care.

OUTCOME MEASURES
It is too early to report any particular outcomes.

BARRIERS TO IMPLEMENTATION
Some key barriers include: lack of interoperable IT systems; requirement that patients leave their PCP to become a part of the home visit practice, a requirement since relaxed by CMS; a need to develop a more robust palliative care home based program for patients; in ability to cover costs of home visit physicians and Nurse Practitioners (NPs) under current reimbursement levels; a need to develop stronger working relationships with community Emergency Departments; a need to develop stronger 24/7 capabilities to response to patient needs as an alternative to Emergency Departments.
CASE STUDY FIVE: EMERGENCY DEPARTMENT U-TURN

AGENCY: Advanced Home Care in Greensboro, North Carolina

LEAD STAFF: Sue Payne, MBA, RN, CHCE, Vice President, Home Care

CEO: Joel Mills

WEBSITE: http://advhomecare.org/

AGENCY DESCRIPTION
Advanced Home Care has thirteen Home Health branches in three states serving average of 550 patients daily and 30,000 annually. Advanced Home care is Medicare/Medicaid certified and accredited by the Accreditation Commission for Health Care.

FUNDING:
There was no external funding for this project.

POPULATION IMPACTED
The program impacts chronic care patients who frequent the Emergency Departmnet (ED) and would benefit from admission to home health from the emergency department.

STRATEGIC PARTNERS
Strategic Partners in this program are hospital EDs, specifically the ED Medical Director, and ED Case Management.

PROJECT DESCRIPTION
Advanced Home Care met with hospital ED staff, including the ED Medical Director and the case management staff who work in the ED. The Advanced Home Care sales staff worked with the ED staff to determine types of patients who would be best fit to benefit from a home health referral. The process of how to conduct the referral was discussed, along with the best method of referral: paper or electronic. Together, both teams developed metrics to measure the number of admissions from the ED, payor source, discipline order and if the patient was admitted to the hospital. The Advanced Home Care staff also provided education on home care to all three shifts of the ED staff, including physicians and nurses.
CASE STUDY FIVE:
EMERGENCY DEPARTMENT U-TURN

RESULTS:
Each month, Advanced Home Care receives an average of six to eight referrals from the ED in specific markets where ED U Turn initiative is in place. Of the referrals Home Care receives from the ED approximately 75 percent are Medicare referrals.

BARRIERS TO IMPLEMENTATION
A key barrier to implementation was that new ED physicians/staff were unaware of the home health referral process and the ED was not as focused on preventing readmissions. Furthermore, the ED pace was so busy that ED staff found it difficult to consider alternative care options such as home care when discharging patients from the ED.
CASE STUDY SIX:
THE INTEGRATED CARE MODEL

AGENCY: Sutter Care at Home’s Center for Integrated Care in Fairfield, California

LEAD STAFF: Beth Hennessey, RN, MSN, Executive Director of Integrated Care Management

CEO: Marcia Reissig, RN, MS

WEBSITE: http://www.suttercenterforintegratedcare.org/

AGENCY DESCRIPTION
Sutter Care at Home (SCAH) is a Sutter Health affiliate and one of the largest, not-for-profit home health care agencies in Northern California. SCAH’s mission is to enhance the health and well-being of the community through a commitment to compassion and excellence in home-based services, offering personalized care in home health, hospice, home medical equipment/respiratory care, home infusion therapy, private care, Lifeline, and community flu and wellness programs. Caring for almost 100,000 patients each year, SCAH serves 23 counties and leads the transformation of home care to achieve the highest levels of quality, access and affordability.

FUNDING
The Center resides under and is funded by Sutter Care at Home, an affiliate of Sutter Health.

POPULATION IMPACTED
The Institute of Medicine’s report, “Crossing the Quality Chasm: A New Health System for the 21st Century” called for reforms to promote the delivery of “patient-centered” care. The new Sutter Center for Integrated Care answers this call by promoting care that is responsive to patient preferences, needs and values, while ensuring the patients’ goals drive all care decisions. One of the Center’s initiatives is the dissemination of the Integrated Care Model (ICM) which is a person-centered, evidence-based, coordinated approach to care for all patients. The ICM model is designed to assist providers in achieving the “Triple Aim” of improving health, the experience of care and lowering healthcare costs.

The Center offers an ICM course on the specific competencies needed to engage patients in their self-care, to assist with patient acquisition of self-management skills and to build patient confidence with self-care. These competencies are relevant in the care of all patients, irrespective of their particular medical condition or problem. The course is structured in a “train the trainer” format to enable trained individuals to disseminate information gained from the course throughout their organization.
CASE STUDY SIX:  
THE INTEGRATED CARE MODEL

STRATEGIC PARTNERS
To date, ICM model training has been provided to over 4,500 health care professionals caring for patients in hospital and community settings in 47 states.

The Center’s professional staff not only train healthcare professionals nationwide, but partner with providers to assist with “hardwiring” model concepts and ensure high quality care is consistently delivered over time. Hardwiring includes implementation of the best methods to identify patient barriers to self-care; imbedding care plan interventions in daily care delivery; improving electronic medical record (EMR) documentation to capture patient barriers; establishing patient-centered goals and tracking progress toward goals; and the selection of quality metrics to drive change and promote continuous improvement throughout the organization.
CASE STUDY SIX:  
THE INTEGRATED CARE MODEL

PROJECT DESCRIPTION
The Integrated Care Model was designed to improve the quality of care provided to patients with chronic conditions. At the time of model inception, the healthcare system was transitioning from volume to value-based reimbursement. The ICM model continually evolves as new evidence presents itself and as more information is gathered from patients about their care experiences. SCAH’s guiding principle is that the patient must be at the center of healthcare team. One way SCAH puts this principle in practice is to include patients and caregivers in the development and evaluation of all our patient-facing materials. For example, SCAH’s new personal health record (PHR) is being field tested with patients and caregivers in clinical settings. Their feedback on all aspects of the PHR informs edits and design modifications and ensures that the end product is actionable and accessible from the user’s perspective – not just from a clinical perspective.

RESULTS
Project success is evidenced by patient, provider and community endorsement. SCAH’s new health literate “Stoplight” forms, designed to increase patient knowledge and inform actions for a condition exacerbation, were recognized by the Center for Plain Language in Washington, D.C. with a 2013 ClearMark Award of Distinction. Patients using these forms – available for 13 different conditions – report feeling a greater sense of control over their conditions.
The ICM program was also selected as a 2013 Home Care & Hospice LINK Spirit of Innovation award winner for the model’s focus on best practices and Sutter Care at Home’s commitment to care excellence. SCAH staff and hospital partners acknowledge the model’s value in making a difference in the care including promoting a sense of meaningful and valuable work.

OUTCOME MEASURES
Suggested process metrics for agency adoption are:
• Percent of staff attendance at weekly multidisciplinary case conferences
• Percent of staff using Situation, Background, Assessment, Recommendation (SBAR) communication in coordination notes
• Percent of patients with patient-specific goal documented in EMR

Suggested outcome metrics for agency adoption are:
• Acute care hospitalization rates
• 30-day re-admission rates
• HHCAPS scores
• Employee turnover rates
CASE STUDY SIX:  
THE INTEGRATED CARE MODEL

ICM results were tracked following initial model implementation at the agency where the model was first deployed, over the course of two years. During this period, acute care hospitalization results were reduced from 29 percent to 14 percent, and RN nurse turnover was reduced from 20 percent to six percent. Agency patient satisfaction scores also increased, as did employee engagement.

A second evaluation is currently underway at Sutter Care at Home, related to the transitions protocol based on ICM tenets. At present, documentation of patient personal goals has increased from 10 percent to 80 percent, and 30-day hospital readmission rates for heart failure patients decreased from 15 percent to nine percent over the course of one year.

BARRIERS TO IMPLEMENTATION

Prior to model deployment, work had to be completed to add a field within the EMR for the patient’s personal goal and to develop a method to run reports on the metric. Another barrier is the realization for many providers that their behavior change is needed to promote a patient-centered approach. A collaborative approach where patients are presented with options and decisions are shared may run counter to current directive approaches. This approach must be supported with tools and opportunities to practice in order to facilitate this change. The institution of “TIP of the Month” sheets, which are short educational reviews, assist with provider behavior change. Other skills, such as motivational interviewing (a patient-centered communication style taught in the ICM class), take time to master. Key principles taught in class must be re-visited continually until they become a normal and natural part of care delivery.
CASE STUDY SEVEN: PRIMARY CARE PROGRAM

AGENCY: Visiting Nurse Health System in Atlanta, Georgia

LEAD STAFF: Dorothy Davis, Executive Director of Long-Term Care

CEO: Mark Oshnock

WEBSITE: http://www.vnhs.org/

AGENCY DESCRIPTION
As Georgia’s leading nonprofit provider of healthcare at home, the mission of Visiting Nurse Health System (VNHS) is to improve the lives of those served. In 2012, VNHS cared for 27,000 patients and their families in 26 metro area counties. VNHS provides in-home nursing care, rehabilitation, primary care and hospice services and operates the Hospice Atlanta Center, a 36-bed inpatient facility in Brookhaven, GA. VNHS cares for all who need services, regardless of diagnoses or financial circumstances. Last year VNHS provided nearly $4.9 million in care to metro Atlanta’s underinsured.

FUNDING
Jesse Parker Williams Foundation provided $125,000 in 2010 to launch the Primary Care program and has renewed its support each year since. Other foundations have provided smaller grants to help fund the program.

POPULATION IMPACTED
The population targeted in this program is mobility-challenged, chronically ill seniors in the greater Atlanta region. VNHS provides these seniors with primary care in their home. In 2012, this program was able to care for 262 patients, primarily in DeKalb and Fulton Counties. A typical patient is over the age of 80, has at least seven chronic conditions, takes on average eight medications daily and has had at least one hospitalization in the past year.

PROJECT DESCRIPTION
Without access to primary and preventive care, seniors can succumb to a cycle of inefficient care delivered episodically via visits to the emergency department, brief hospitalizations, and discharges home without proper follow-up care. As a result, approximately 18 percent of Medicare patients are readmitted to the hospital within 30 days of hospital discharge. Readmissions adversely affect seniors’ health and peace of mind, undermine their ability to live independently and result in excessive Medicare spending. The VNHS’ Primary Care program prevents this type of crisis-driven care through a proactive approach that facilitates ongoing, regular monitoring of seniors’ health.
CASE STUDY SEVEN: PRIMARY CARE PROGRAM

Specific benefits to this program are the following:
• Increased access to care
• Decrease Emergency Room visits and hospitalizations
• Disease management education
• Peace of mind for patients
• Cost savings

RESULTS
There are a myriad of benefits from enacting this program in Atlanta. A survey conducted of patients found that 74 percent had not seen a primary care physician (PCP) in the previous year. Once in this program, each patient receives 6 –12 visits a year from either a PCP or Nurse Practitioner (NP) in their home. Another added benefit is fewer hospitalizations and a decrease in emergency room visits. Since patients receive timely medical attention in the home, approximately 80 percent avoid hospitalization or emergency room visits.

Each time a patient is seen by a clinician is an opportunity for disease management education. The clinician can give the patient a quick lesson in the management of their specific disease or answer questions for the patient while in the home.

OUTCOME MEASURES
In the spring of 2013, 70 primary care patients were randomly selected to receive patient satisfaction surveys. Twenty-nine patients returned the surveys (a 41 percent response rate), which revealed the following:
• 69 percent of respondents stated they were always or usually able to be seen in their home within 36 hours of contacting the office for care; 36 hours is the benchmark for receiving timely care set by the American Academy of Home Care Physicians.
• 93 percent of respondents stated that the ability to receive medical care in their home has improved their quality of life.
• 86 percent of respondents reported high satisfaction with the amount of time their primary care provider spent with them.
• 90 percent of respondents reported consistent interaction with their family/caregiver.
• 79 percent of respondents stated services have reduced their trips to the emergency room.
CASE STUDY SEVEN:
PRIMARY CARE PROGRAM

VNHS receives Medicare claims data on the portion of primary care patients who are participating in the Independence at Home (IAH) demonstration project. The most recent data received contains information on 62 IAH patients during the time period of June 1, 2012 – February 28, 2013. This data shows that 69 percent of patients (43 of 62) avoided a hospitalization and 84 percent of patients (52 of 62) avoided an emergency room visit during this time period.

BARRIERS TO IMPLEMENTATION

Barriers to this program include issues with clinical reporting software. VNHS had issues with providing staff education on software utilization. VNHS also had difficulty enrolling eligible patients to participate in the program, and multiple staffing changes that slowed program implementation.
CASE STUDY EIGHT:
SAME-DAY JOINT REPLACEMENTS

AGENCY: Home Nursing Agency, Altoona, Pennsylvania  
LEAD STAFF: Richard Lobb, MBA, Chief Strategic Business Development Officer  
CEO: Robert Packer  
WEBSITE: http://www.homenursingagency.com/ 

AGENCY DESCRIPTION
Since 1968, Home Nursing Agency is the largest post acute provider of services between Pittsburgh and Harrisburg, Pennsylvania, specializing in home health, hospice, behavioral health, private duty, pediatric care and a host of additional community-based waiver services. 

FUNDING
Highmark Blue Cross Blue Shield of Western, PA 

POPULATION IMPACTED
The population impacted by this study is a target group of patients in West Central PA with low co-morbidities under the age of 65 requiring a hip or knee placement. 

STRATEGIC PARTNERS
In this program, the strategic partner was University Orthopedics Group. This group provided all surgery services, including the surgeons, support staff and anesthesiology. 

PROJECT DESCRIPTION
The avatar program is available over the web and is embedded on a tablet given to each patient enrolled in the study. The avatar provides the patient with an overview of what to expect before, during and after the surgery. Most importantly, this program teaches the patient signs and symptoms and self-care techniques to recover from surgery. The patient is provided with techniques to change dressings, handle pain management and what to expect following physical therapy appointments. The avatar complements the field nurses by reinforcing their training. It is important to note that the Avatar is not meant to replace the nurse training, but augments it 24/7/365 when the field nurse is not in the patients’ home.
CASE STUDY EIGHT: SAME-DAY JOINT REPLACEMENTS

RESULTS
The results of this program have positive clinical and financial results. Clinically, patients had a quicker recovery time and quicker range of motion (ROM) response as compared to conventional in-patient surgery. This led to a savings of about half the costs (about $15,000 per patient served) as compared to an in-patient DRG payment. This is an estimate based on what the Hospital would have received as a DRG payment as compared to what the orthopedics group and Home Nursing Agency receive for the services. Highmark BCBS has not yet set a date for bundled payment compensation however Home Nursing Agency is seeing a HHRG episodic payment outside the bundled payment model. It is expected that when Highmark BCBS begins paying under the bundled payment pilot, quality outcomes will be part of the incentive portion of the payment.

OUTCOME MEASURES
The number of patients readmitted to the hospital for knee related issues were zero during this episodic coverage period. There were no emergency room visits nor were there any unscheduled visits with the orthopedic physician group. Furthermore, the number of patients in the program that had complications was zero.

BARRIERS TO IMPLEMENTATION
There were very few barriers to success of this project, namely because this was an independent setting with University Orthopedics Group. Digital avatars were utilized to reinforce patient education both before the joint replacement and after surgery regarding recovery expectations. The avatars were supported by mobile tablets and internet used by patients during the duration of the care episode.
CASE STUDY NINE: POST-CARDIOTHORACIC SURGICAL INFECTION PREVENTION PROGRAM

AGENCY: Visiting Nurse Service of New York, New York City, New York

LEAD STAFF: Jane Cholak, RN, BSN, Account Manager

CEO: Mary Ann Christopher, MSN, RN, FAAN

WEBSITE: http://www.vnsny.org/

AGENCY DESCRIPTION
For 120 years, the Visiting Nurse Service of New York (VNSNY), the largest not-for-profit home- and community-based health care organization in the country, has been committed to meeting the health care needs of New Yorkers. Today, VNSNY provides care throughout all five boroughs of New York City, Westchester, Nassau and Suffolk Counties and parts of upstate New York. VNSNY employs 2,772 nurses, 582 rehabilitation therapists, more than 12,000 home health aides, 592 social workers, and 160 other clinical professionals.

VNSNY has the capabilities and resources to deliver a full range of home- and community-based health care services, including:

- Skilled nursing
- Physical, speech, and occupational therapy
- Home health aide and companionship services
- Services for emotional conditions such as anxiety and depression
- Social work
- Nutritional guidance
- Infusion care
- Services for children and families
- Advanced illness and end-of-life care
- Community mental health services
- Medicaid and Medicare health plans from VNSNY CHOICE
- Paraprofessional and private pay services from Partners in Care

FUNDING
This project was not funded by any federal or state agency, or private institution.
CASE STUDY NINE:
POST-CARDIOTHORACIC SURGICAL INFECTION PREVENTION PROGRAM

POPULATION IMPACTED

VNSNY, in collaboration with The Mount Sinai Hospital (MSH), identified the need to develop a home care program to enable eligible and appropriate patients to go home in lieu of subacute rehab. It was identified that patients going to subacute rehab had an increase in hospital 30-day readmissions for sternal wound infection.

STRATEGIC PARTNERS

The Visiting Nurse Service of New York worked in collaboration with Mount Sinai Hospital in NYC. The collaborative workgroup consisted of:

VNSNY

- Centers of Excellence: Nursing, Rehab facilitated program development
- VNSNY Certified Diabetes Educators (CDE)
- VNSNY Wound Ostomy Certified Nurse Specialists (WOCN)
- Clinical Education developed educational tools and materials for field nursing staff serviced by
- Clinical Operations trained field nurses in all geographical areas
- Rehab Department developed an Intensive Cardiothoracic Home Care Rehab program for patients to go home in lieu of subacute rehab. The Rehab Department provided training and education to all field physical therapists and occupational therapists.
- Intake Education developed and implemented teaching/training materials for the VNSNY Intake staff at Mount Sinai Hospital

Mount Sinai Hospital

- Medical Director, Mount Sinai Cardiomyopathy Program
- VP, Nursing, Mount Sinai Heart
- President’s Office
- Nurse Director, 7W, Cardiothoracic Inpatient Unit
- Surgical Site Infection (SSI) Workgroup
- Department of Rehabilitation
- Department of Infection Control
- Social Work Department
- Case Management Department
- Department of Quality Initiatives
CASE STUDY NINE:
POST-CARDIOTHORACIC SURGICAL INFECTION
PREVENTION PROGRAM

PROJECT DESCRIPTION
A workgroup was created in September 2012. The VNSNY/MSH workgroup met monthly. The workgroup’s first step was to match the teaching tools developed and used for patients with sternal wounds on the 7W cardiothoracic inpatient unit to the teaching tools that would be used to continue the teaching in the home (transitional care) by the home care RN.

A vital component of the program plan was to have WOCNs and CDEs provide consults in the home on appropriate patients.

Next steps were to develop the training materials for the VNSNY field nurses, physical and occupational therapists, and intake team. The Sternal Wound Program went live on March 4, 2013.

RESULTS
The project generated a renewed focus on nursing interventions and patient teaching to prevent surgical site infections for the home care patient. The focus was on the impact of blood glucose control and the impact on wound healing and basic infection control practices.

Mount Sinai Hospital recommended use of the Joint Commission “Speak Up Campaign: Five Things You Can Do to Prevent Infection” pamphlet to teach patients and caregivers the importance of hand hygiene. Nurses were instructed to demonstrate and ask for a return demonstration on hand washing technique to highlight the importance of this basic strategy to reduce SSI.

As a result of this project, VNSNY added the Joint Commission tool “Five Things You Can Do to Prevent Infection” into our clinical orientation program and into the VNSNY Wound Care Protocols resource tool for clinicians.

In home health care, the Outcome and Assessment Information Set-C (OASIS-C) assessment tool requires the clinician to document the healing status of surgical wounds on admission to home care. In the reporting of outcomes data 33.6% of the surgical wounds were reported as “not healing”. This definition required clarification for our partner, Mount Sinai Hospital, regarding clarification of reports on outcomes related to wounds and OASIS. The Wound Ostomy and Continence Nurses Society Guidance on Oasis-C Integumentary Items (2009) provide the definitions for healing status choices and guides the clinicians’ assessment and documentation.
CASE STUDY NINE:  
POST-CARDIOTHORACIC SURGICAL INFECTION PREVENTION PROGRAM

OASIS-C differentiates between surgical wounds healing by primary intention and wounds healing by secondary intention. There are two options for a wound healing by primary intention: “newly epithelialized” or “not healing”. The clinician selects “newly epithelialized” if the assessment matches the definition:

- wound bed completely covered with new epithelium
- no exudate
- no avascular tissue (eschar and/or slough)
- no signs or symptoms of infection

A wound that is healing by primary intention but does not completely match that definition would be described as “not healing.” For surgical wounds that are healing by secondary intention the healing status includes “newly epithelialized, fully granulating, early/ partial granulation and not healing.”

Wound Consultation - All patients were asked permission to have their surgical wounds photographed upon admission to home care as part of wound consultation. A Certified Wound and Ostomy Care Nurse (CWOCN) reviewed patient photos and assessed for evidence-based topical treatment options if needed. The photos were transmitted via secure email to a Nurse Practitioner (NP) or physician at Mount Sinai Hospital.

Diabetes Consultation – The status of all patients in the study who had pre-existing diabetes was evaluated by the VNSNY Certified Diabetes Educators (CDE) to determine the level of glucose control at the time of discharge. The importance of optimal glucose control to enhance the potential of wound healing was explained to the patient and caregivers and nutritional guidelines were reviewed. Changes in therapy regarding diabetes medications were recommended as needed and follow up was made with the primary VNSNY nurse.

OUTCOME MEASURES

From the beginning of March, 2013, to the end of May, 2013, the Sternal Wound Program used unified treatment approaches, from hospital to home, for 131 Mount Sinai Hospital patients with sternal wounds. Ten of these patients, were able to avoid skilled nursing home admissions by participating in the VNSNY Intensive Rehab Program. When evaluated against the Centers for Medicare and Medicaid (CMS) Outcome-Based Quality Improvement (OBQI) outcome measures, patients surpassed six out of seven national quality benchmarks for essential quality of life functions, including the patient's pain frequency when moving, ease of breathing, and ability to walk, bathe, take medicine, and get in and out of bed. In addition, 100 percent of the VNSNY-Mount Sinai Hospital patients who took part showed wound improvement.
BARRIERS TO IMPLEMENTATION

A number of barriers to implementation occurred during this project. During the pilot phase of the program the social work staffing model was unable to identify all appropriate patients for the sternal wound program. Physicians and physical therapists were reluctant to send patients home with home care in lieu of subacute rehabilitation. Staff at VNSNY discovered the need for ongoing teaching, training and education for field professional staff and also for Mount Sinai Hospital staff. Furthermore, a lack of standardized outcomes measures was a challenge to the implementation of this program.
CASE STUDY TEN: 
CARDIAC CARE PROGRAM WITH LINK TO CARE 
TRANSITIONS PROGRAM

AGENCY: VNA Health System in Shamokin, Pennsylvania

LEAD STAFF: Kathy Witcoskie, RN, Director of Quality Management

CEO: Joe Scopelliti

WEBSITE: http://www.vnahs.com/

AGENCY DESCRIPTION
VNA Health System has multiple locations throughout central PA, including home care, hospice, private duty, adult care, etc. Over the years, the VNA Health System mission and allegiance to patients have remained constant: “to provide quality, cost-effective home health and related services in our service territory, to all persons or families, regardless of their ability to pay.

FUNDING
There was no external funding for this project.

POPULATION IMPACTED
The area includes 18 counties throughout central Pennsylvania and the population targeted is 65 and over with chronic heart conditions who are recently post operational.

PROJECT DESCRIPTION
The Quality Management Department conducted reviews and research for over two years on chronic care conditions, reasons for re-hospitalizations, knowledge deficit for particular populations, medication management, necessary education and the use of telehealth monitoring in the home setting. This research was then combined with an already established cardiac education program, able to hit all the necessary areas for complete cardiac patient care.

The next step was to determine that poor care transitions results in more frequent early rehospitalizations based on the research and cardiac patients. The Quality Management Department then investigated the proper visit frequency for patients with and without telehealth monitoring to benefit the program. This was done by reviewing the number of front-loading visits, phone calls to follow up in-between visits and also determining when to place the telehealth unit in the home. VNA Health System used statistics from the national level and individual hospital statistics and state stats to look at age, demographics, education level and income to determine the population that would benefit from a link of these patients with the care transitions program.
CASE STUDY TEN:
CARDIAC CARE PROGRAM WITH LINK TO CARE TRANSITIONS PROGRAM

RESULTS
Twenty percent of all Medicare patients are re-admitted within 30 days (as opposed to what the pre intervention rate was). Half of those patients never had a follow-up appointment with their doctor or surgeon. Congestive Heart Failure (CHF) is one of the top diagnoses in which patients are re-admitted frequently, due to a lack of follow-up care and lack of knowledge regarding proper diet for associated illnesses. Lack of knowledge in simple daily weights and how to follow-up with results was found to be missed with patient education very frequently. Medication changes are one of the top three reasons for hospitalization. Research found that the nurse discharging the patient from the hospital had an average of only 21 minutes to perform discharge education and was comprehended by patients only 25 percent of the time.

Psychosocial factors increase the risk for early re-hospitalizations. Possible use of IV diuretic therapy in the home may help improve need for ER visits and hospital re-admissions. Home telehealth monitoring has shown to be able to acknowledge early signs and symptoms of heart failure, giving the home nurse ability to contact the physician for medication changes to prevent an ER visit or hospital re-admission. In certain areas researched, lack of education and depressed area with lack of funding may lead to inability to understand medication regimen and/or purchase medications. Research in certain areas finds lack of caregivers involvement leads to unwilling cooperation of the patient. Without oversight by family member or caregiver, patients do not comply with medication regimen and/or diet regimen, leading to early re-hospitalizations.

OUTCOME MEASURES
This project has only been out for a short time and definitive percentage numbers are not able to be given at this time. However, spot review over a few months has determined this program has been able to reduce early hospital readmissions taking into consideration the CHF diagnosis and the age population. This has also cut ER visits as well. Not only has this helped with the chronic conditions, however, it has also helped with other issues found with telehealth monitoring, i.e. BP issues, Oxygenation issues, all leading to decrease in re-admissions and/or ER visits.
CASE STUDY TEN:
CARDIAC CARE PROGRAM WITH LINK TO CARE TRANSITIONS PROGRAM

BARRIERS TO IMPLEMENTATION

The main barriers at this point are issues with the telehealth system being able to be in homes without a phone line, or issues with people who bundle their phone, television and internet. Many patients have a cell phone as their main telephone line, which causes issues to installing telehealth systems. Outsourcing of telehealth monitoring has been a barrier due to companies only performing for a few months. VNA Health System has now decided, through financial studies, to add monitoring in-house for more personal control and to be able to research and compile statistics needed for how the program is a benefit to the targeted populations. Cost control is an issue since insurance companies do not reimburse for telehealth monitoring. VNA Health System has proven cost containment by decreasing nursing visits per episode of care related to daily telehealth monitoring. The exact figures have not yet been determined. Success has been seen with patient compliance and appreciation of the monitoring. VNA Health System is able to determine other areas of concern, i.e. atrial fibrillation with a patient, blood pressure problems, oxygenation issues, etc. The telehealth system for monitoring has worked without issues, however, the equipment used has shown some problem areas.