

Objectives

Decrease 30-day readmissions, long-term utilization of the emergency department (ED), and hospitalizations of "High Utilizers" within the Southern Arizona VA Health Care System (SAVAHCS).

Planning/Research Methods



- The Agency for Healthcare Research and Quality (AHRQ) reported that, in 2012, the top 10% of the health care-utilizing population accounted for 65.6% of overall health care expenditures in the United States (Yang, Delcher, Shenkman, & Rank, 2018)
- In 2021, the top 10% of the health care-utilizing population accounted for 61.2% of overall health care expenditures at the SAVAHCS (Allocation Resource Center Costs by Patient, 2021)
- High utilizers are more likely to have multiple chronic medical conditions, mental health diagnoses, and social detriments of high health that require multidisciplinary interventions (Bell, Turbow, George, & Ali, 2017)
- A multidisciplinary and highly individualized approach is essential to developing successful interventions for patients with the highest hospital utilization (Knox, Schneider, Hecht, Patel, & Myers, 2018)
- The most effective intervention, research shows, focuses on improving patients' capacity for self-care (Leppin et al., 2014).

Looks like we will need a multidisciplinary team to tackle this problem!





Post-Acute Home Care Initiative New Directions in Transitional Care for High Utilizers

Results

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- detriments of care.

The Post-Acute Home Care Program started on 1/1/20 and is ongoing



utilization as a result of the program. It was also identified that this program was highly successful at transitioning patients to hospice who had previously declined hospice consult.

Bell, J., Turbow, S., George, M., & Ali, M. (2017). Factors associated with high-utilization in a safety net setting. BMC health services research, 17(1), 1-9. doi: 10.1186/s12913-017-2209-0. Knox, Schneider, Hecht, Patel, & Myers. (2017, April). Breaking the cycle: A successful inpatient based intervention for hospital high utilizers. Hospital medicine, 32, S738-S739. Leppin, A., Gionfriddo, M., Kessler, M., Brito, J., Mair, F., Gallacher, K., . . . Erwin, P. (2014). Preventing 30-day hospital readmissions: A systematic review and meta-analysis of randomized trials. JAMA *Interanl Medicine*, *174* (7); 1095-1107.

McWilliams, M., Barnett, M., Roberts, E., Hamed, P., & Mehrotra, A. (2019). Did hospital readmissions fall because per capita admission rates fell? Health Affairs, 38(11): 1840-1844. Yang, Delcher, Shenkman, & Ranka. (2017). Identifying high health care utilizers using post-regression residual analysis of health expenditures from a state Medicaid program. AMIA Annual Symposium *Proceedings, 2017, 1848.*





Discussion

• The "Care Assessment Needs" (CAN) score is a tool developed by the Department of Veterans Affairs to predict the risk of readmission or death using over 160 different variables. It has been shown to be highly

• The Post-Acute Home Care (PAHC) Team was formed to reduce readmissions for patients going home who are at a high risk of return; any decrease in facility visits for this "high utilization" population is significant. • Fifteen (15/66) patients were readmitted while receiving this service; review of the admissions revealed that only 3 (18%) were preventable by the PAHC team.

• The remainder of the readmissions (12/15) were for non-preventable causes (examples include: COVIDrelated hospitalization, myocardial infarction, cerebrovascular accident, inappropriate discharge).

• Most readmissions occurred within 9 days of hospital discharge, and over 50% were readmitted for a different diagnosis than the previous admission.

• Utilizing the physician and the rest of the team in an expedient manner, many interventions could be made in the home to prevent ED visits/hospitalizations.

• These data capture patients in our program who were discharged >12 months ago.

• Several factors contribute to Emergency Department utilization: severity of illness, healthcare literacy, decision making capacity, perceived access to care, understanding and ability to use other forms of care, as well as being able to contact their primary care team in a timely fashion.

• The team worked with the patients to help them improve their healthcare literacy and to improve their understanding and ability to use the healthcare system capabilities such as nurse triage, home telehealth, and secure messaging – all contributing to decreases in inappropriate ED visits.

• These data capture patients in our program who were discharged >12 months ago.

• The team identified many factors that contributed to the decrease in hospitalizations. Many of the most critically ill patients benefited from goals of care conversations and assistance in aligning their values with realistic goals. Some ultimately made the choice for hospice care.

• The ability of the multidisciplinary team to work with patients in their own home and provide real time nursing, social work, dietary, and occupational therapy interventions was highly effective in creating longterm success.

• The presence of a home care physician to assess, diagnose, and treat the patients with early symptoms was essential to preventing decompensation leading to ED/Hospitalization. The physician made an average of 3 visits to each patient on the program.



Sources