Video Visits for Home Health Patients with Chronic Obstructive Pulmonary Disease

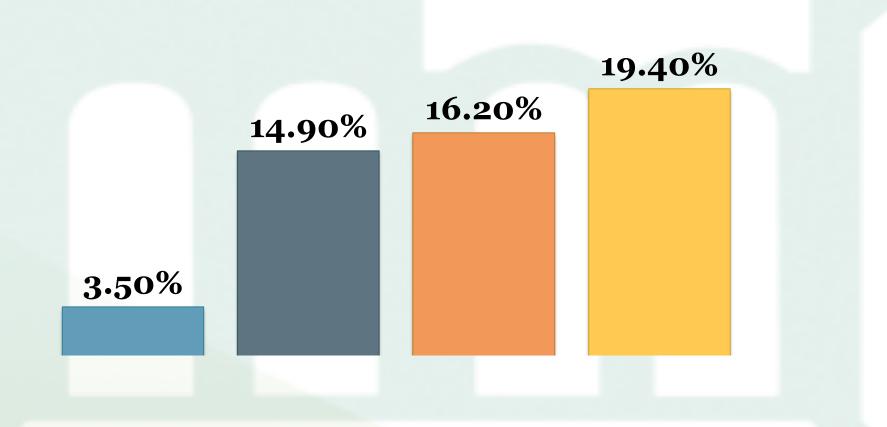


Background

- Chronic Obstructive Pulmonary Disease (COPD) is a leading cause of morbidity and mortality
- COPD patients have high rates of emergency department visits and hospital readmissions both nationally and locally
- A local home health agency is interested in using video visits to compliment their skilled nursing inhome visits as an additional way to support patients with COPD in their homes and efficiently utilize their clinical staff



- Agency CHF 2016
- Agency COPD 2016
- Home Health National Average All Cause
- Local Hospital COPD



Available Knowledge

- Research reports patients and clinicians satisfied with the quality of home care delivered through video visits
- Mixed evidence regarding cost savings

Purpose

To assist the local home health agency launch a video visit program.

Aims

- Develop video visit guidelines for agency use
- Create a staff education module

Advisor Acknowledgements

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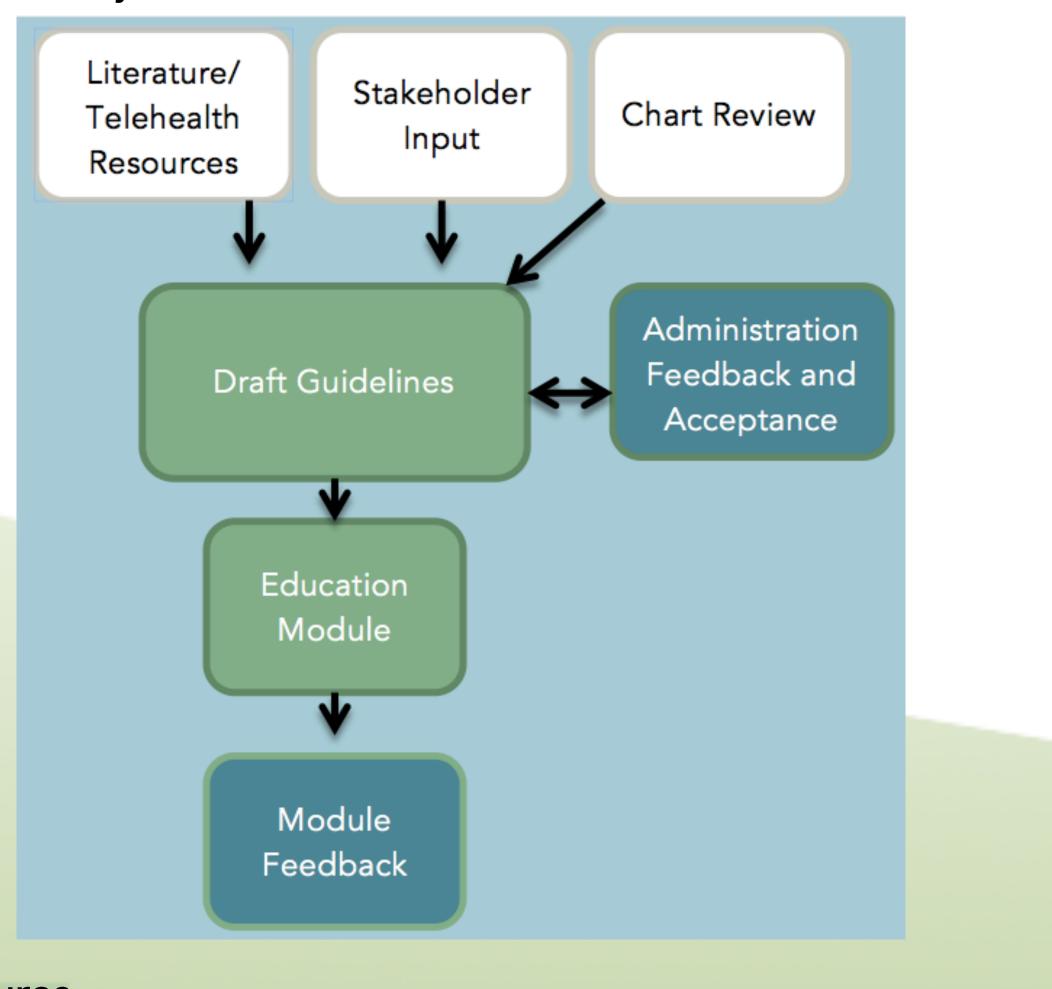
Methods

Context

- Full-service, not-for-profit Visiting Nurse Association
- About 225 employees including registered nurses, physical, speech, and occupational therapists, LNAs, social workers, a bereavement coordinator, a chaplain, and administrative staff
- Average of 759 patients on service daily
- Established telemonitoring program overseen by telehealth nurse
- Better Breathing Program
- Project leader from outside the organization

Interventions

- Review of existing telehealth resources
- Chart review of COPD patients enrolled at agency from October 1, 2016 to March 31, 2017 (6 month period)
- Gather stakeholder input through interviews with patients and staff
- Compilation of video visit guidelines
- Creation of staff education module with survey to assess clarity and effectiveness of module



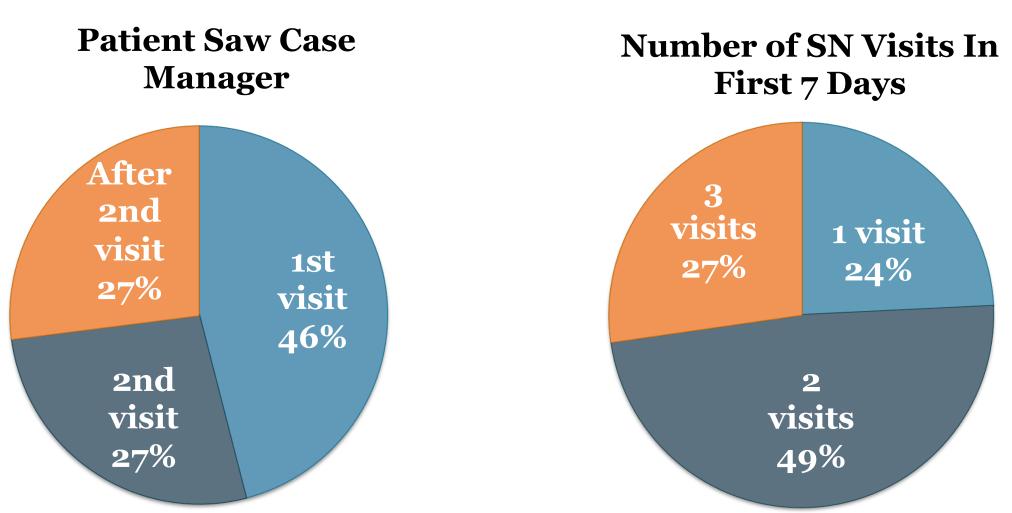
Measures

- Stakeholder input to inform guidelines
- Feedback from administration regarding draft guidelines
- Qualitative and quantitative education module survey results

Results

The interventions were carried out on an ongoing basis from the spring through the fall of 2017

. Chart review



2. Stakeholder interviews

 Input was gathered from two members of administration, two registered nurses, two physical therapists, five home health patients, and three attendees of the Better Breathing Support Group Patient response sample:

• "Would be another headache"

• "Would be nice to connect with the nurse that way....I go to the ER when my COPD symptoms are not getting better."

• A messaging feature would be helpful for those that are having difficulty speaking

Clinician response sample:

• How would this fit into schedule/patient load? • How would we conduct a physical assessment? • Keep technology simple for patient Administration input:

• Request for evidence-based COPD self-management curriculum incorporated ino the guidelines for nurses to use during video visit

3. Completed Guidelines

• The guidelines cover informed consent, inclusion and exclusion criteria, privacy, safety, communication best practices, patient assessment, ideas for rolling out a program, and tools for evaluating program success • Living Well with COPD curriculum added to guidelines

4. Education Module

• As of 2/23/18 4 RNs and 1 LPN had viewed module • 2 completed feedback survey

• 100% agreed or strongly agreed that module increased awareness of the potential value of a video visit program and an understanding of the basic video visit guidelines

Discussion

Discussion of Findings

- Specific aims achieved
- Data from chart review showed need for improvement of frontloading to achieved VNA Blueprint for Excellence recommendations (2-3 consecutive skilled nursing visits with same RN post hospital discharge)
- Clinicians and patients had mixed responses to the idea of video visits, from hesitation to enthusiasm
- Initial feedback regarding education module suggests effectiveness at increasing participant awareness of video visit benefits
- Incorporation of video visits into workflow and scheduling remains a question
- Agency not ready to begin video visit program, primarily due to budget concerns

Limitations

- Small sample size of chart review
- Small number of module participants and survey response rate
- Insights and interpretations as an agency outsider may be different from staff members
- Utility of materials will become evident only with implementation of a video visit program

Next Steps

- Seek staff champion to take over a small pilot program, generate staff buy-in, and build video visit program over the course of years
- Explore grant opportunities for pilot program
- Periodic review and revision of the guidelines as the agency learns from experience or as new best practices come to light

Conclusion

- COPD patient population is an important target for additional interventions
- Video visits are a means to provide additional interventions
- Building a video visit program requires significant preparation
- Through this project, some of the groundwork has been laid for the agency to begin a video visit program
- Adequate funding is essential to support organizations to innovate
- Video visit program has potential for growth

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