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Optimizing Secure Patient Messaging Workflow in a Vermont Primary Care Clinic

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Background

Secure patient messaging is an asynchronous communication tool designed for non-urgent questions. While increasingly popular with patients, it is sometimes used inappropriately for advice on urgent concerns such as chest pain, falls, and suicidality. Clinical staff may not respond in a timely manner to these concerns given current workflows that prioritize other methods of communication such as phone calls to the office.

Purpose

Develop a methodology to improve the timeliness, effectiveness, and safety of secure patient messaging workflow within one primary care office in suburban Vermont.

Methods

Pre-Implementation:

•Clinical staff surveyed at baseline utilizing the Likert scale to assess current attitudes toward messaging workflow

 Baseline incoming message types and quantities cataloged

Implementation:

• Piloted an RN redeployment model to focus on secure messaging

- Developed patient education materials
- •Weekly audits of message types
- Daily audits of message quantities and RN stress levels

Post implementation:

• Follow-up staff survey to assess effectiveness of trialed changes

"RNs succeeded in establishing a routine where MyChart messages were centralized for 2-4 hours per day. This is a huge accomplishment given all the human/change management factors involved." – project participant



and safety of secure messaging workflow all significantly improved during the pilot. Pre-implementation survey n = 17; post implementation survey n = 15

Results

•Post-implementation survey findings showed a clear improvement in staff attitudes regarding efficiency, timeliness and safety of secure messaging process during the pilot

•Audits of messages showed marked improvement in timely responses and fewer urgent messages incoming to the office overall

•Patient communication with tips for appropriate messaging had open rate of 38% (*n*= 1274) and positive response from readers

"It was much better to see the messages during the work" day than have them forwarded overnight and knowing the patient had already waited all day for an answer they hadn't gotten." – project participant

Offices not realigning their task priorities to align with the rapid change in patient behavior (i.e. patients use portals more, while...offices continue to rely on older forms of communication) creates a vortex where more portal messages AND telephone encounters occurs as offices struggle to keep up due to being 'behind the times'." – project participant



Limitations

een, R. (2012), Meaningful use of secure messaging for providers, patients, *EHR Intel*

(2020). A retrospective analysis of provider-to-patient secure messages: How much are they incre

ıda, S., Petrakis, B., Rothendler, J., Zirkle, M., Shibei Zhao, Hua Feng, Fix, G., Ozkayna

akushi, J., Wintner, M., Yau, N., Borgo, L., & Solorzano, E. (2020). Utilization of Secure

Cartmill, R. (2017). The impact of secure messaging on workflow

Tulu, B., Gordon, H., Simon, S., Woods, S., Zhao, S., & Feng, H. (2017). A

•Concurrent initiative to reduce overall in-basket volumes made it difficult to discern how much reduction in secure messages attributable specifically to pilot •RN stress levels are subjective and not necessarily correlated with secure messaging vs. other stressors, such as pandemic •Message auditing/categorization an exercise in clinical judgement

Conclusions and Practice Implications

Data clearly shows that patients like and use secure messaging, often preferring it to calling their clinic. However, clinic workflows have traditionally prioritized responding to incoming phone calls, despite the fact that secure messages are becoming more involved, more urgent, and more frequent. This project demonstrated that committing to a change in office workflow can result in more timely, efficient, and safe patient care. It did so without any financial investment and via a model that can be easily adopted by other primary care or specialty care ambulatory clinics.

