Secure Messaging to Improve Nurse-Provider Communication in Long Term Care

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Problem

Traditional Practice Model

Telephone communication

– Care delays

– Dissatisfaction

Physicians / Nurses

(Whitson, 2008)

– Safety (IOM, 1999)

barriers (Tjia et al.

(California Healthcare

Foundation, 2008)

– Inefficiency (Agarwal,

Sands, & Schnieder,

– Communication

– Physician liability

2008)

2010)

15,000 long-term care (LTC) facilities (Medicare.gov, 2013)

1.5 million people residing in LTC facilities in 2004 (CDC, 2015)

Complex care and growing population (Eliopoulos, 2012)

Provider roles

- Attending Physician
- Nurse practitioner (NP)
- Physician assistant (PA)
- Clinical nurse specialist (CNS) **Clinical Initiative**

Demographics

Facility A

- 66 beds
- Metropolitan area
- Majority short term residents
- On-site providers

Facility B

- 73 beds
- Rural area
- Majority long term
- residents
- Off-site providers

Participants

- Long term care facility Pre-implementation data nurses (n=25) collection
- Physician (n=1)
- NP (n=4)

Interventions

Pre-implementation data collection

> - Retrospective chart review of nurse notification to provider and provider response times

Questionnaires with facility nurses using the *Nurse-Provider* Communication Needs Assessment *Questionnaire* (Tjia et al. 2008)

Secure messaging system implemented with 25 nurses and 5 providers for 2 months

> - Cloud based storage of encrypted information

– Application available through smartphone, desk top computer or other mobile device

- Retrospective chart review of nurse notification to provider and provider response

times

Questionnaires with facility nurses using the Nurse-Provider Communication Needs Assessment *Questionnaire* (Tjia et al. 2008)

Questionnaires Results

Pre-implementation questionnaires

- Facility A 16 administered (15)
- Facility B 9 administered (8) ref

Post-implementation questionnaires

- Facility A 14 administered (14)
- Facility B 7 administered (6) re-
- Matched pairs n=6

Paired t test: No statistical significance

Qualitative Data

Nurses describing the most recent diffic with a provider

- impatience
- provider unfamiliarity with the
- interruptions

Nurses description of the most difficult

- perceived disinterest of provider
- interruptions
- difficulty hearing.

Issues preventing effective communication

- not enough time
- not listening
- not responding timely

Factors cited by nurses to improve nurse communication

- being prepared
- having information readily avail

Implications for practice

- can be used to develop strategies to improve communication.

- There was documentation of the content of messages. —

Brandman University

<u>Outcomes</u>		
	What do you wish providers would do differently when communicating with you?	Continued work is communication an
returned	 allow you to finish 	communication.
turned	 listen to what I have to say 	Further study of th
returned turned	What do you wish you could do differently when communicating with providers?	communication is :
	 more time 	AHC Media LLC. (2011). Anal
	 ability to send lab reports 	Management, Retriev
	 to be more involved in care and healthcare decisions 	Agarwal, R., Sands, D.Z., & So
culty communicating	Communication Events Results	communication on ine
	Pre-implementation communication events N=312	(55)4, 265-282.
	Response Times	California Healthcare Foundation
patient	 Elapsed time of communication events n=11 (mean = 57.09 minutes) 	http://www.chcf.org/p
	Post-implementation communication events N=304	liability-fears-and-the-
part of communicatio	– Facility A n=105 (34.5%)	Centers for Disease Control and
	– Facility B n=199 (65.5%)	http://www.cdc.gov/no
	Response times	Centers for Medicare & Medica
ion	 Elapsed time of communication events n=10 (mean = 94.40 minutes) 	Retrieved from http://
	Secure Messaging communication events N=55	Instruments/QualityIn
	Response Times	Desmarais, H. (2010). Financia
e-provider	 Elapsed time of communication events n=49 (mean = 36.31 minutes) 	information. Retrieved
	 Outlier removed (mean = 8.9 minutes) 	Eliopoulos C. (2012). 21st cent
	 Mode = 1 minute 	competencies. Annals
ilable	- 92 % responses < 30 minutes	Institute of Medicine. (1999). 7
		http://www.iom.edu/R
		System.aspx

Conclusions

- While secure messaging did not improve the questionnaire results, the information available from nurse responses

- Secure messaging has potential to improve provider response time in certain settings.

- There was increased documentation of provider response with secure messaging.

- Secure messaging is an alternative to telephone communication and complies with privacy regulations.

Community Primary Care of Georgia Ethica Health and Retirement Communities Mediprocity

Recommendations

needed to improve nurse-provider nd remove barriers to effective

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Acknowledgments



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