

Effects of an Audio Reminder on Turning Compliance

Amy E. Evans BSN, RN

Lehigh Valley Health Network, amy_e.evans@lvhn.org

Megan N. Verba BSN, RN

Lehigh Valley Health Network, megan_n.verba@lvhn.org

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Effects of an Audio Reminder on Turning Compliance

Amy Evans, BSN, RN and Megan Verba, BSN, RN
Lehigh Valley Health Network, Allentown, Pennsylvania

BACKGROUND / INTRODUCTION

- Hospital Acquired Pressure Ulcers (HAPUs) are a preventable complication which directly impact patient care and outcomes (Padula, Mishra, Makic & Sullivan, 2011).
- Extensive financial implications for hospitals when pressure ulcers are acquired during the hospital stay (Bar, 2016).
- Estimates of the annual cost for treatment of hospital-acquired HAPUs in the U.S. range from \$2.2 to \$3.6 billion (Tashman & Low, 2016).
- It is more cost effective to prevent an ulcer than to treat it. Approximately, 95% of these ulcers are thought be preventable (Kim & Jeong, 2012).
- Patients with HAPUs are at an increased risk for nosocomial infections, prolonged length of stay and greater risk of mortality (Padula, Mishra, Makic & Sullivan, 2011).

PURPOSE

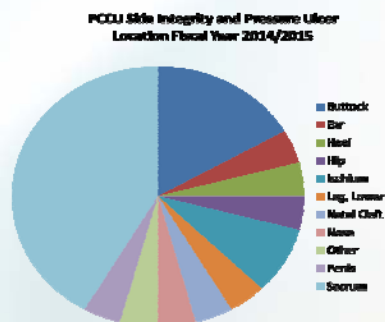
In the adult population, does the use of an audio reminder to turn patients every two hours, compared to no use of an audio reminder, increase compliance with turning patients.

P: adult population

I: audio reminder every 2 hours

C: no audio reminder

O: reduction of skin breakdown



PROCESS / IMPLEMENTATION

Initial Skin Integrity and Pressure Ulcer Unit Data for LVHN Fiscal year 2014/2015 revealed 24 pressure ulcers were acquired on Progressive Coronary Care Unit (PCCU).

- This included ten sacral and four buttock acquired pressure ulcers.

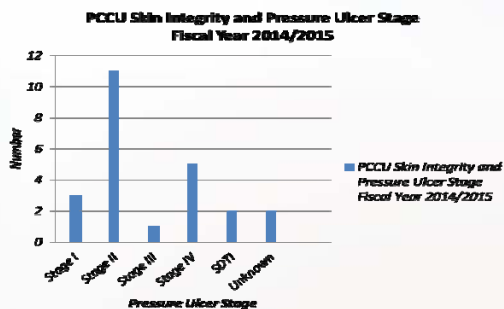
The study utilized 10 second audio clips played over the unit intercom system every two hours as cues to registered nurses and technical partners to reposition patients.

Current unit turning and repositioning practices are self-initiated and rely on the nursing staff to remember to turn patients every two hours.

Staff education and audio clip input initiated through staff email in mid-July at PCCU unit staff meeting.

Unit leadership facilitated compliance of turning with the audio reminder.

Audio reminders played every 2 hours from 0800 to 1800.



BARRIERS / LIMITATIONS

This study encountered unexpected barriers which affected study completion. Study barriers include:

- Patient rest disturbance
- Physician rounding interrupted
- Audio reminder volume
- Audio reminder song choice
- Patient and family perception on audio reminders
- Lack of research on the use of turn reminders

CONCLUSIONS

Turning and repositioning remains a vital nursing practice to reduce hospital acquired pressure ulcers.

Further research could explore.

- Identify barriers and potential solutions. For example: more education regarding the purpose of the audio reminder for physicians and patients.
- Research audio reminder that is non-disruptive but also recognizable and effective.

EVIDENCE

-Bar, S.H. (2016). The Centers for Medicare & Medicaid Service Reimbursement Policy & Nursing-Sensitive Adverse Patient Outcomes. *Nursing Economics*. 34 (4):161-181

-Kim, H. J., & Jeong, I. S. (2012). Optimal time interval for position change for ICU patients using foam mattress against pressure ulcer risk. *Journal of Korean Academy of Nursing*, 42(5), 730-737.

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-Tashman, N., and Low, S. Improving Hospital-Acquired Pressure Ulcer Prevention on Orthopedic Unit. *MEDSURG Nursing*. Jul/Aug 2016.

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