✚ Evidence in focus

Publication summary: Schutt SC, et al. *Nurs Open* (2017)*

Smith+Nephew

The LEAF◊ Patient Monitoring System significantly improved patient turning frequency, aiding delivery of a high-quality pressure injury (PI) prevention program

✚ Plus points

53% relative increase in patient turning with the LEAF System compared with baseline (p<0.001)

Zero
PIs developed during the pilot study

Overview

- An open-label, non-randomized, pre- and post-intervention pilot study conducted at a single center in the USA
- Frequency of patient turning for PI prevention efforts with the LEAF System was assessed
- A total of 78 patients were enrolled in the baseline phase (data collected but not transferred to nursing station) and 70 patients were enrolled in the post-intervention phase (data collected and transferred to nursing station)
  - Sensors were applied to patients during both phases

Results

- Monitoring data were collected and analyzed for:
  - Baseline phase: 75 patients over 4,322hrs
  - Post-intervention phase: 63 patients over 3,532hrs
- The LEAF System helped increase the mean percentage of time a patient's position changed within each 2-hour turn period (baseline phase, 64% vs post-intervention phase, 98%; p<0.001) (Figure)
  - From the baseline phase, there was a relative increase of 53% in optimum patient repositioning with the use of the LEAF System (Figure)
- Significantly increased turning frequency for patients in isolation with the LEAF System versus baseline (48 vs 99%; p=0.030)
- No PIs developed during the pilot study

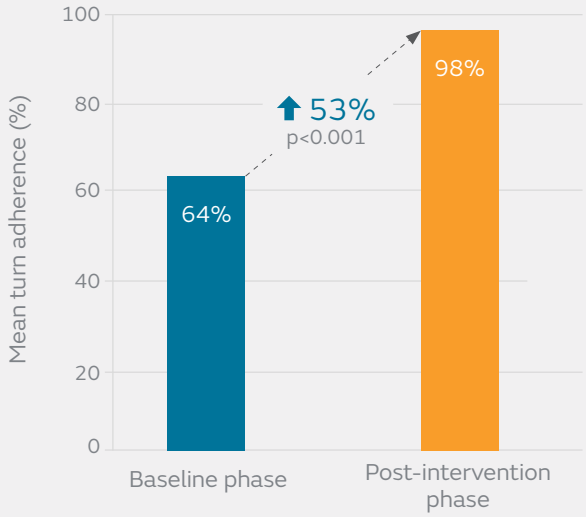

Figure. Turning protocol adherence pre- and post-intervention

Conclusions

Use of the LEAF System enabled nurses to identify patients who were self-turning and those who were in need of assisted turns; helping to avoid PIs developing in this study.

Citation

*Schutt SC, Tarver C, Pezzani M. Pilot study: Assessing the effect of continual position monitoring technology on compliance with patient turning protocols. *Nurs Open*. 2017;5(1):21–28.

Available from: Nursing Open

For detailed product information, including indications for use, contraindications, precautions and warnings, please consult the product's applicable Instructions for Use (IFU) prior to use.

Advanced Wound Management Smith & Nephew, Inc. Fort Worth, TX 76109 USA | www.smith-nephew.com
Customer Care Center 1 800 876-1261 F 727 392-6914 | ◊Trademark of Smith+Nephew ©2020 Smith+Nephew | LFCE12-22453-0520