Results of a questionnaire-based study to evaluate smart infusion pump end users’ perceptions and understanding of the drug library update process are reported” Delaurentis et al (2019).

Abstract:

PURPOSE: Results of a questionnaire-based study to evaluate smart infusion pump end users’ perceptions and understanding of the drug library update process are reported.

METHODS: The Indianapolis Coalition for Patient Safety, Inc., in partnership with the Regenstrief Center for Healthcare Engineering, conducted a 33-item electronic, cross-sectional survey across 5 Indiana health systems from May through November 2017. Interdisciplinary participants identified for survey distribution included nurses, pharmacists, biomedical engineers, administrators, and medication safety officers. The survey assessed the following domains: patient safety, the drug library update process, knowledge of drug libraries and the update process, and end-user perceptions.

RESULTS: A total of 778 submitted surveys were included in the data analysis, with a large majority of responses (90.2%) provided by nurses. The use of drug libraries for ensuring patient safety was deemed extremely important or important by 88% of respondents, but 36% indicated that they were unsure of whether drug libraries are updated on a routine basis in their health system. Approximately two-thirds agreed that the current update process improves quality of care (65.0%) and patient safety (68.1%). Moreover, 53.3% agreed that the current drug library update process was effective. However, less than 10% responded correctly when asked about the steps required to update the drug library. Furthermore, only 18% correctly indicated that when a pump is on it may not necessarily contain the most up-to-date version of the drug library.

CONCLUSION: A survey of 5 health systems in Indianapolis identified several end-user knowledge gaps related to smart pump drug library updates. The results suggest that these gaps were most likely due to a combination of the 2-step update process and the fact that the current drug library version is not easy to find and/or user-friendly and it is unclear when an update is pending.
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