



Smart Agent is a web-based solution for establishing bidirectional communication between an infusion pump and an electronic health record (EHR). It eliminates the need for clinician double check of medication administration using an infusion pump” Griffiths et al (2019).

Abstract:

Smart Agent is a web-based solution for establishing bidirectional communication between an infusion pump and an electronic health record (EHR). It eliminates the need for clinician double check of medication administration using an infusion pump. Because the clinician already is using the EHR to review patient health information and update status, the addition of the web service would help eliminate the potential for human error when using a manual system. The Smart Agent process encompasses the reading of pertinent patient data from the EHR, determination of a new medication dosage based on an internal protocol, input of the dosage into an infusion pump, confirmation of the medication dosage acceptance at the infusion pump, and recording the medication change back into the EHR. The widespread use of Smart Agent-type algorithms with bidirectional communication capabilities would result in safer, more efficient provision of care, as well as better value.

You may also be interested in...

Infusion pump nuisance alarms are disruptive to patient care  
Implementation of smart pump technology with home infusion providers  
Ambulatory IV pump use continues to increase annually

Reference:

Griffiths, S.M., Sapirstein, A., Guzman, J.C., Soriano, Z. and Ravitz, A.D. (2019) Automated, Web-Based Solution for Bidirectional EHR-Infusion Pump Communication. *Biomedical Instrumentation & Technology*. 53(1), p.30-37.

doi: 10.2345/0899-8205-53.1.30.

