Position Statement Proposal

Committee: New York City and Westchester Chapters of Health-system Pharmacists

Topic: Implementation and Utilization of Electronic Health Record-Smart Pump Interoperability

Sponsored: Emily Messing and Frank Sosnowski

Whereas, the average hospitalized patient will experience at least one medication error each day1, and,

Whereas, a study conducted by Westbrook *et al.* (2011) found that nearly 70% of intravenous medications administered had at least one error and that 25.5% of intravenous administration errors were considered serious2, and,

Whereas, the use of dose error reduction systems or smart pumps has been shown to decrease potentially serious harm2, many infusion-related errors are still not addressed3 including a failure to use the device as intended4, and,

Whereas, for example, Husch *et al*. (2005) found that out of 426 medications infusing through an intravenous pump that 66.9% had one or more administration error including medications being administered at the wrong rate or an incorrect concentration or for an order that had been discontinued5, and,

Whereas, with the implementation of infusion pump interoperability, technology closes the loop of delivering intravenous fluids and medications, and it is assumed that a higher degree of

safety is achieved6, and,

Whereas, specifically integration helps reduce error-prone manual infusion programming and ensures accurate and timely documentation of infusion data3, and,

Whereas, the Institute for Safe Medication Practices (ISMP) recommends the implementation of bi-directional smart pump interoperability with the electronic health record in their Draft Guidelines for Optimizing Safe Implementation and Use of Smart Infusion Pumps7; therefore, be it

*Resolved*, that: The New York State Council of Health-system Pharmacists supports the recommendation for all hospitals to implement and maintain interoperability between their smart pumps and electronic health records.

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

By:

Emily Messing, PharmD, BCPS

Signature of NYSCHP Active Member 1

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References

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7. Draft Guidelines for Optimizing Safe Implementation and Use of Smart Infusion Pumps. *Institute for Safe Medication Practices*. Available at: <https://www.ismp.org/resources/draft-guidelines-optimizing-safe-implementation-and-use-smart-infusion-pumps>. Accessed October 22, 2019.