

MedLite ID[®]

Illuminating Patient Safety

Lighting the primary / emergency IV medication line to reduce infusion confusion

Improving patient safety, optimizing efficiency and reducing clinician stress

MedLite ID[®] is a simple-to-use, disposable medical device enabling clinicians to easily locate the primary medication infusion line in any light setting. MedLite ID reduces “infusion confusion” by virtually eliminating line-tracing related to the primary line through utilization of robust visual indicators.

medliteid.com

Introducing MedLite ID ...

THE PROBLEM: INFUSION CONFUSION

Over 90% of hospitalized patients receive infusion therapy, yet today's smart pumps do little to reduce stress for caregivers or decrease the potential for error when working with multiple infusion lines. The ECRI Institute named infusion errors its #1 Healthcare Technology Hazard¹ and identified the "Mix-up of IV lines leading to misadministration of drugs and solutions as the fourth leading patient safety concern".² Infusion-related errors are estimated to add more than **\$2 billion annually** to U.S. healthcare costs.³

INFUSION LINE ERRORS BY THE NUMBERS:



EXTENSIVE CLINICAL STUDY AND RECOMMENDATIONS

The Ontario Health Technology Advisory Committee commissioned HumanEra to generate evidence-based recommendations to reduce the hazards associated with administering multiple IV infusions to a single patient.⁶ A study by Kane-Gill found that each additional IV medication increased the likelihood of an adverse drug event by 3%. The recommended interventions included:

- When the primary / emergency medication line and infusion pump are set up, primary IV tubing should be labeled at the injection port closest to the patient
- The label should be prominent and visually distinct from all other labels in the environment
- Technology can minimize the potential for infusion confusion, ***specifically with light-linking systems***

A simple, innovative technology designed to improve patient safety

THE SOLUTION: MEDLITE ID

MedLite ID reduces the risk of infusion confusion by providing lit indicators at the drip chamber, primary / emergency medication injection site and the venous access catheter. Within seconds, MedLite ID improves patient safety, optimizes efficiency and reduces clinician stress.

IMPROVES PATIENT SAFETY

- Drastically reduces the risk of medical errors by illuminating the primary medication line in all ambient lighting
- Allows clinician to quickly find the primary medication line during life or death situations when time is of the essence
- Decreases the complexity associated with multiple infusion lines
- Provides two methods of differentiation — lit and unlit

OPTIMIZES EFFICIENCY

- Significantly reduces the time to identify the primary medication line by approximately one minute
- Takes seconds to apply and use, making training quick and easy
- Expedites and lessens confusion during patient transports and shift changes

REDUCES CLINICIAN STRESS

- Immediately mitigates “infusion confusion” or “spaghetti syndrome” that occurs when lines become tangled or hidden by bedding or patient gown
- Makes primary medication line identification less disruptive and improves patient satisfaction
- Results in less stress on staff, particularly during emergency situations





CLINICAL REFERENCES

¹ ECRI Top 10 Healthcare Technology Hazards for 2017; <https://www.advisory.com/daily-briefing/2016/11/09/the-top-10-health-technology-hazards>;

² Top 10 Patient Safety Concerns for Healthcare Organizations; ECRI Institute PSO; 2015; downloaded 07/12/2019: https://www.ecri.org/EmailResources/PSRQ/Top10/2015_Patient_Safety_Top10.pdf

³ Institute of Medicine. Preventing Medication Errors: Quality Chasm Series. Washington DC: National Academies Press, 2007. Metrics provided in 2006 dollars.

⁴ Schnock, Dykes et al; The frequency of intravenous medication administration errors related to smart infusion pumps: a multihospital observational study. *BMJ Qual Saf.* 2017

⁵ Benson, Carson et al; John Hopkins University. Improving Safety of Medication Infusion Pump Through Simulation and Applying Systems Engineering Principles and Best Practices; produced for AHRQ, Oct 2014

⁶ Pinkney, Fan, et al; Multiple Intravenous Infusions Phase 2b: Laboratory Study; Ontario Health Technology Assessment Series; Vol. 14: No. 5, pp. 1-163, May 2014

⁷ MedLite ID DSU Study, 2018. <https://medliteid.com/clinicians/dsu-clinical-study/>

ABOUT MEDLITE ID

MedLite ID is a medical device manufacturer that partnered with the University of Notre Dame and DSU to develop a unique solution to light the primary / emergency medication infusion line. The device creates an easily identifiable way to help prevent medical errors due to infusion confusion and improve patient safety. For more information on MedLite ID, please visit medliteid.com.



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