

Standardization of insulin delivery product and practice with collaboration between a large healthcare system and embecta

Situation: Within a large healthcare system, over half of the 40 hospitals faced a lack of standardization in their use of safety insulin syringes, with needle lengths ranging from 6mm to 12.7mm and varying safety activation technologies. Standardization across facilities may optimize patient and healthcare worker safety, as well as operational efficiency.

Task: Standardization of the safety insulin syringe category and injection technique with collaboration between the healthcare system's Value Analysis Committee and embecta.

Key actions included:

- ✓ Review of clinical recommendations for safe insulin delivery and determination of optimal product selection (considering needle length, safety features, ease of use, etc.)
- ✓ Cross-referencing of syringe utilization to standardize to one type of safety-activation technology
- ✓ Injection technique education and training coordination for nursing staff
 - A detailed training plan was created for Nurse Education Managers, including organizing and conducting in-service training sessions for nursing staff on the proper use of the new safety insulin syringes
 - Manufacturer-led training included live in-servicing with return demo, how-to-use guides, and videos
 - An education tracker was developed to identify hospitals that still required training, ensuring no facility was left behind
- ✓ Tracking the conversion progress to ensure all hospitals met the go-live date
 - Weekly calls were held with project stakeholders to update on progress and address any challenges



Result: Standardization to the Ultra-Fine™ SAFETY Insulin Syringe (with 6mm needle and one-handed activation of the safety mechanism) was successfully completed across the entire healthcare system, including education and training.

Key outcomes included:

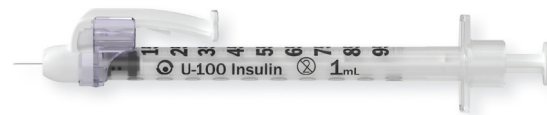
- **Timely completion and flawless execution:** The conversion process was executed smoothly and all in-service training sessions were completed on time.
- **Nurse competency in product usage:** Nursing staff demonstrated their understanding of the new safety insulin syringes through return demonstrations, to help ensure confidence in using the products safely and effectively.
- **Enhance culture of safety:** The collaboration aimed to enhance the culture of safety and reduce needlestick injuries within the healthcare system by standardizing to a safety insulin syringe with features aligned with clinical recommendations and providing education and in-servicing support.

Conclusion: Through careful planning and collaboration, the healthcare system successfully implemented a system-wide change intended to enhance patient safety, nursing staff competency, and operational efficiency. This case study highlights the value of a partnership with a syringe manufacturer and the importance of cross-department collaboration and ongoing education in implementing safety initiatives within complex healthcare systems.

To work with embecta to standardize insulin delivery at your facility, visit embecta.com



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