Background

Edward-Elmhurst Health System is a multi-hospital system with 11 procedure rooms performing cardiac cath, interventional radiology, neuroradiology, electrophysiology, and hybrid structural heart procedures. Leaders at EEH recognized that the thousands of individual SKUs and high value of their extensive inventory could no longer be managed by manual tracking and data entry. The integrated inventory solutions from Insysiv were launched at Edward's Hospital in 2016 and expanded across the EEH system shortly thereafter.

Solution

The clinical team at EEH recognized their existing systems were plagued with inefficiencies such as double documentation and items missing from inventory due to lack of visibility. Members of the clinical team also managed supply chain tasks and each day was stressful for them making sure all supplies were documented in the Epic EMR and Merge physiologic recording system and then translating that supply information into another system for supply orders. With Insysiv's integration abilities with EEH's existing software, double documentation into all their systems was eliminated. A simple scan of each supply used during the procedure immediately populated their Epic EMR case log and Merge physiologic recording system. And now, once or twice a day, Insysiv sends an automated requisition to their Lawson MMIS based on pre-established PAR levels. In addition to eliminating inefficiencies and waste, the visibility into inventory supports data analytics to perfect PAR levels and brings data sources together to analyze operational and supply chain metrics.

With the addition of Insysiv's RFID Track and Trace technology, EEH closes the loop with supply chain visibility from receiving, to utilization, to trash. RFID has gained the unfortunate reputation that it is too expensive and complex so its use should be reserved for high-cost items and implants. The cost effective RAIN RFID technology from Insysiv, validated to the EEH team that the benefits of this technology could drastically reduce loss from missed charges, waste for expired products and unexpected stockouts. At a cost of pennies per supply, EEH uses it where it benefits their operations the most. It's like having a security risk insurance policy on each supply item.

Solution Continued

With the Insysiv systems fully integrated into clinical and supply chain operations, anyone on the EEH team can easily search and interrogate the vast amount of data now captured for each case. They can search for a product to see exactly what case it was used for. If a doctor asks, "Can you give me a list of patients where I used product X?" Insysiv generates the list in seconds. If a director asks, "What is the market share distribution for drug eluting stents?", again, in seconds it is reported from Insysiv. At EEH this feature saves them time, money, and manual labor.

EEH leadership was also looking for a business intelligence and reporting tool for both clinical and financial analytics. Critical to organization was the ability to analyze operations by case types and volumes, do peer comparison by physician, identify savings opportunities on device usage, and much more. Using a proprietary case categorization algorithm Insysiv assigns each and every case to a specific case type. At EEH, business intelligence is granular down to the case type and physician. Case cost variation is quickly identified and acted upon.

Result

EE Health now has a bird's eye view of its inventory usage, waste, and trends, giving them valuable insights into its labs' daily operations. These specific data insights have enabled EEH to more effectively manage their inventory from product to patient, simplifying the process along the way.

With the help of Insysiv and careful par level adjustments, EEH has used data analytics to optimize their lab's supply profile. They've been able to significantly decrease the amount of on-hand inventory, increase certain product pars to prevent stockouts, and remove products no longer needed.

> "Our previous inventory process was disorganized. With Insysiv, we now have the potential to eliminate waste, keep a careful eye on par levels, and an integration to produce product charges into our EMR" said Natalie Bruff, Inventory Specialist, Elmhurst Hospital.

Because of its user-friendliness, customizability, functionality, and innovative design, Insysiv has proved to be an essential inventory management tool in key hospital departments.