

Cutting Inventory Costs with Analytics



A photograph of the exterior of Edward Hospital. The building is a large, multi-story structure made of red brick. It features a central entrance with a glass-roofed section. The name "EDWARD HOSPITAL" is visible on the facade. The building is surrounded by lush green trees and landscaping. An American flag is flying on a pole in the foreground.

Solution | Using Analytics to Optimize Kit Par-Levels & Reduce Drug Inventory

Kit Master Segment Optimization***

PAR - MAX ≥ 2

Kit Master
Open Heart Box

Dispatch Date
1/9/2016 to 3/3/2016

PAR-MAX Threshold
2

of Non-Zero Dispatches***
75

Kit Master - Segment	Segment PAR	Max Consumed	PAR - Max Consumed	Avg Consumed
Open Heart Box - Lidocaine 100mg/5ml syringe	2	2	0	0.8
Open Heart Box - Magnesium Sulfate 1gram/2ml vial	2	2	0	1.1
Open Heart Box - Mannitol 20%, 500ml bag	1	1	0	0.5
Open Heart Box - MethylPREDNISolone 500mg vial	1	1	0	0.4
Open Heart Box - Metoprolol 5mg/5ml vial	2	0	2	0.0
Open Heart Box - Nitroglycerin 50mg/10ml vial	0	0	0	0.0
Open Heart Box - Nitroglycerine 50mg vial	2	1	1	0.0
Open Heart Box - Norepinephrine 4mg/4ml vial	0	0	2	0.0
Open Heart Box - Phenylephrine 10mg/ml vial	4	4	0	0.7
Open Heart Box - Phytanolsolone 10mg/ml amp	1	1	0	0.4
Open Heart Box - Plasma-Lyte A 1,000ml bag	1	1	0	0.4
Open Heart Box - Potassium Chloride 40mEq/20ml vial	4	4	0	1.1

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“We are going to continue to use the analytics to look at all tray inventory. I think having the data is a great way to start the conversation about optimizing what truly needs to be in kits.”



Huzefa Raja, PharmD.
OR Pharmacy Supervisor



Results | Saving \$1,000 Per Kit

With the data obtained from Kit Check Analytics, Raja was able to reduce the Open Heart Box inventory by 25%, from 85 to 64 items. That translated into a savings of \$900 - \$1000 per kit for a total savings of nearly \$10,000 just for the Open Heart Boxes. This reduction was largely driven by reducing Nitroprusside Sodium from 2 vials to 1 vial per box. Nitroprusside Sodium recently spiked to \$829 a vial and provides an example of how Kit Check Analytics can help hospital pharmacies adjust quickly to rapid drug price increases.

“By reducing the number of medications in the box, it gave us the opportunity to reallocate medications to an area where they are more likely to be used. For example, the nitroprusside sodium reduction alone equated to \$8,000 savings because they were only in open heart boxes for emergencies and often expired before use,” explained Raja. The hospital also gained additional benefits by removing other excess items. Now the boxes are clean and organized, making it easier for the staff to identify individual items. They are also lighter which makes the kits easier to transport.

Edward-Elmhurst HEALTHCARE

Using Analytics

Kit Check Analytics has also enabled Edward Hospital to streamline the decision-making process for the pharmacy and anesthesia staff regarding kit medication par-levels. “The feedback from the CVOR anesthesia staff was very positive. We now have the ability to make suggestions with hard data behind it to justify our reasons,” said Huzefa Raja, Edward Hospital OR Pharmacy Supervisor.

Edward Hospital by the Numbers

318



KITS IN
CIRCULATION

39.1



KITS PROCESSED
PER DAY

4,711



AUTOMATED ITEM
CHECKS PER DAY

24.7%



REDUCTION IN OPEN
HEART KIT INVENTORY

352



HOSPITAL
BEDS SUPPORTED



Used by more than 200 hospitals, Kit Check’s focus is helping hospital pharmacists improve operational efficiency, patient safety and medication visibility. We do this by providing friendly technology solutions that are simple to install and use, reliable and transform tedious manual processes into automated solutions. By combining cloud software with RFID technology, processes involving pharmacy kit restocking, recalls and shortage management are all streamlined.

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