



# Reduction in Pharmacy Lost Charges Using Barcoded Syringe Labels

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Dallas, Texas

#### 2 Hospitals and 1 Outpatient Surgical Center

- Clements University Hospital
  - 460 Beds
  - 27 operating rooms
  - 11 off service anesthesia sites
- Zale Lipshy University Hospital
  - 148 Beds
  - 11 operating rooms
  - 4 off service anesthesia sites
- UTSW Outpatient Surgical Center
  - 8 operating rooms
  - 4 off service anesthesia sites

33,000 anesthetics per year across the system



# The Problem

Anesthesia doesn't properly document all medication administration

# OR hardware setup

## BD Pyxis ES

# Tangent and Cybernet computers

# **Vigilant Labels printer**

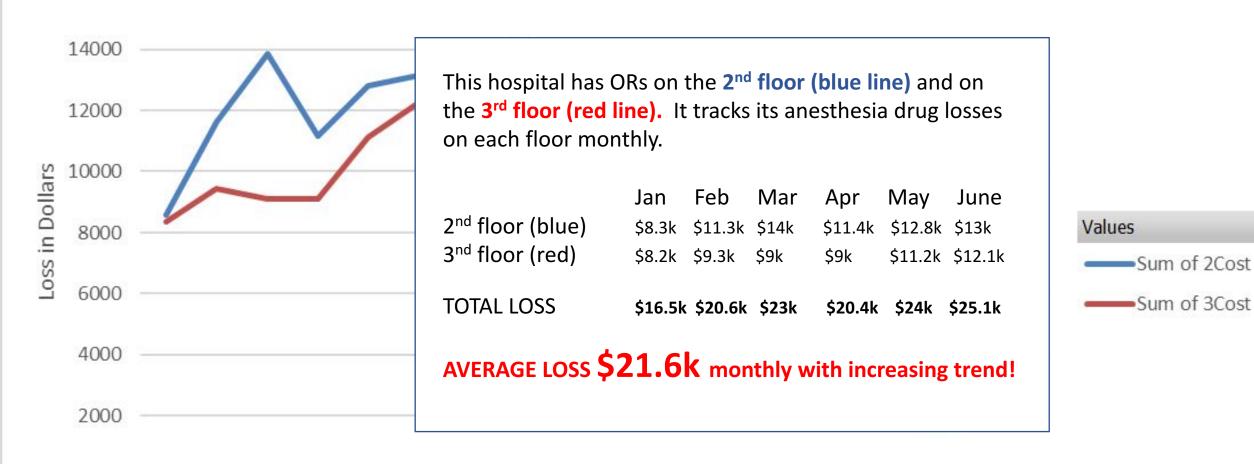
## **Open Access Drawers**

Helpful in emergencies

## Drawbacks include

- Drawers unlock without patient selection
- Easy to remove and not associate to patient even when patient selected
- Doesn't tell Epic what was removed
- Easy to fail to return/waste

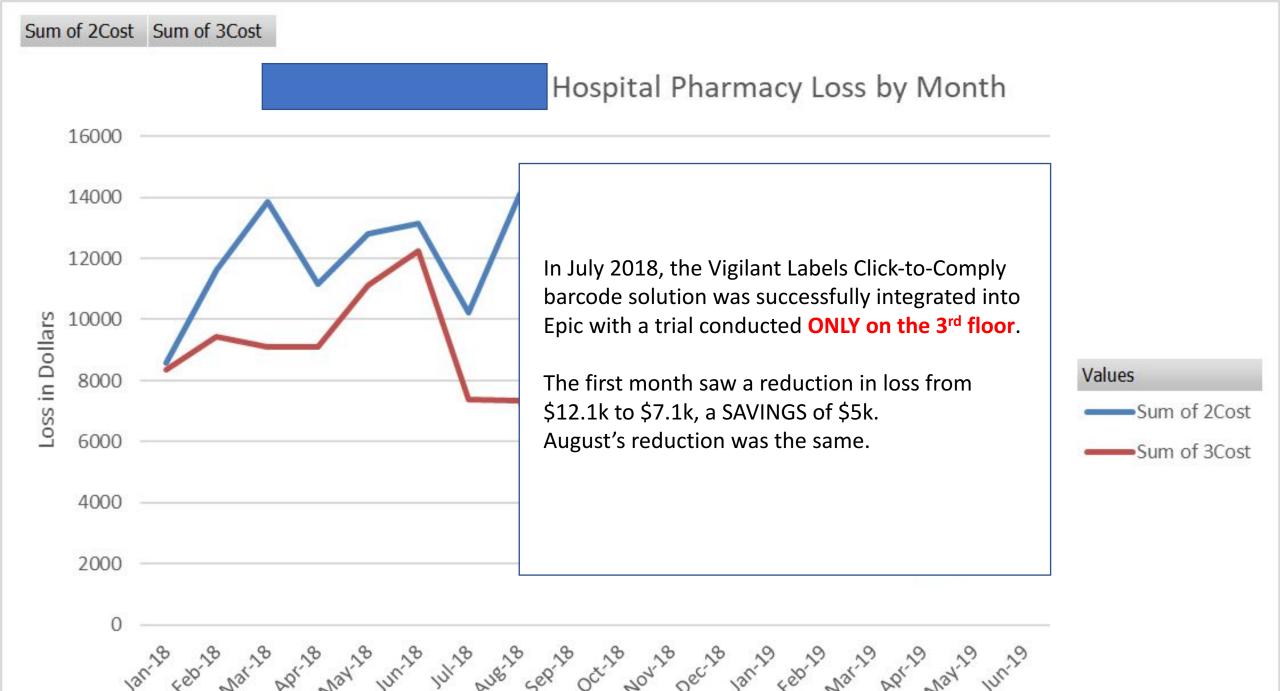
### Hospital Pharmacy Loss by Month



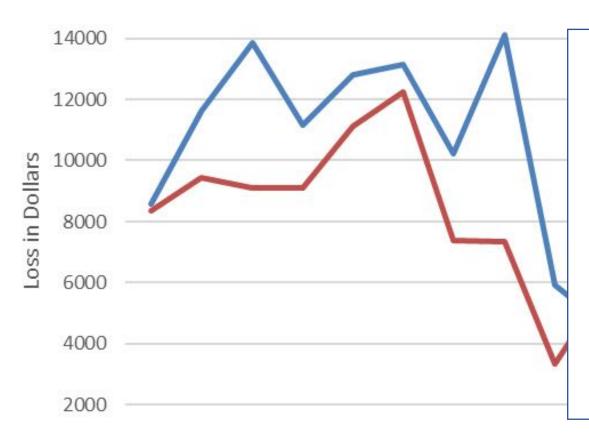
Sum of 2Cost Sum of 3Cost

16000





### Hospital Pharmacy Loss by Month



Sum of 2Cost Sum of 3Cost

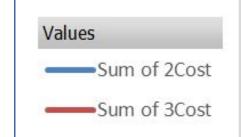
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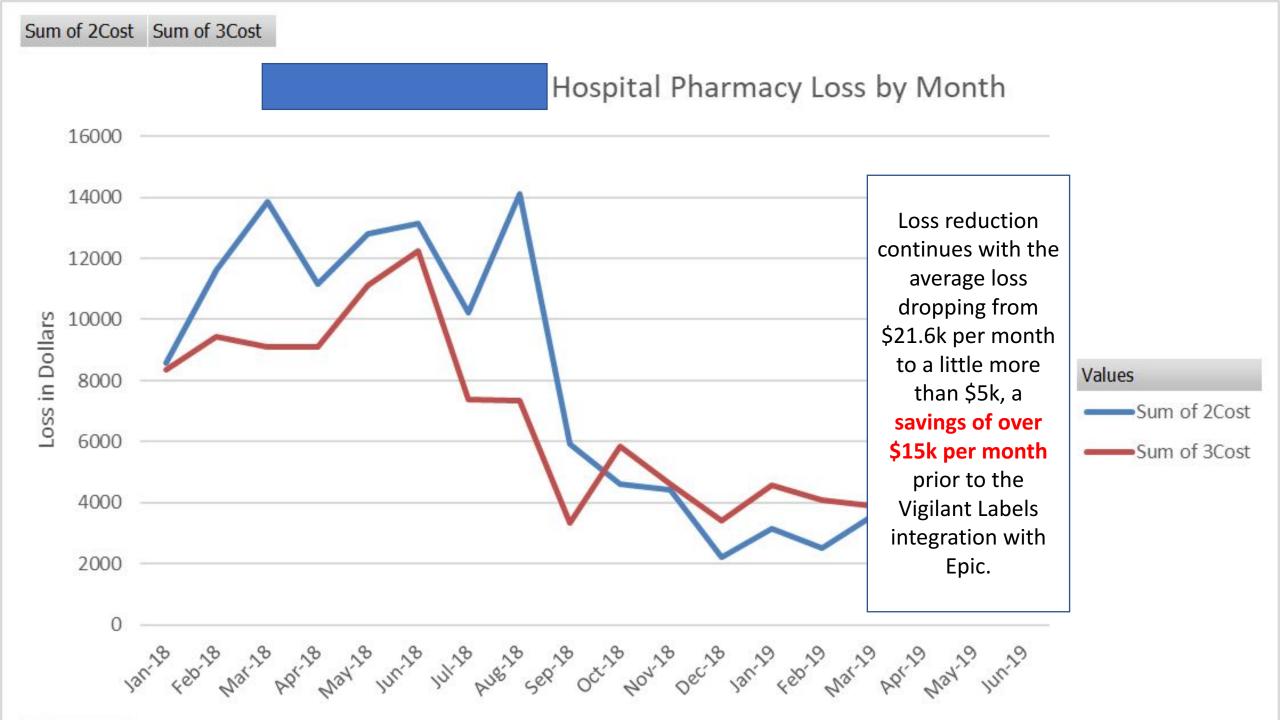
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Due to the success of the Vigilant Labels barcode integration on the 3<sup>rd</sup> floor, the decision was made to 'go-live' on the 2<sup>nd</sup> floor in August 2018. September was the first full month that the system was fully 'live' on both the 2<sup>nd</sup> and 3<sup>rd</sup> floor.

The loss on the 2<sup>nd</sup> floor dropped from \$14k to \$5.8k in a single month, and the loss from on the 3<sup>rd</sup> floor continued to drop from \$7.3k to \$3.3k.

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# Make Scanning Easy

NDC is a horrible standard

- Too many "or" statements
  - 12345-678-90≠1234-5678-90
- No standardization of "what is this" component
  - 1234-5678-90≠4321-5678-90
- Clinicians rarely see the difference

## ERX is just plain better

- No duplications
- Shorter
- Only backend change if pharma vendor changes
- Can print complete label sheet at once

# Make Scanning Easy

Sent ERX code to printer vendor

After trial and error

- 2 barcodes vertically on left
- Faster time to successful scan

	AuST 07/01/19 @ 12:59 BUD: Expires foday at 23:59	E
翻翻	Lidocaine 2% AuST 07/01/19 @ 12:59	Medium
***	Bupivicaine 0.25% AuST 07/01/19 @ 12:59	
調測	HYDROmorphone 0.1 mg/mL AuST 07/01/19 @ 12:59 BUD: Expires today at 23:59	
鐵鐵	Sufentanil 5 mcg/mL AuST 07/01/19 @ 12:59 BUD: Expires Today at 23:59	
溜湖	Succinylcholine 20 mg/mL AuST 07/01/19 @ 12:59 300: Expires today at 23:59.	Am
調整	Vecuronium 1 mg/mL AuST 07/01/19 @ 12:59	Madium
調調	Atropine 0.4 mg/mL AuST 07/01/19 @ 12:59 800: Expirez today at 23:59	
	Phenylephrine 100 mcg/mL AuST 07/01/19 @ 12:59 BUD Expires today at 25:59	000
翻翻	NOREPInephrine 8 mcg/mL AuST 07/01/19 @ 12:59 BUD: Expires roday of 23:69.	
鐵鐵	Ondansetron 2 mg/mL AuST 07/01/19 @ 12:59 BUD: Expires today at 23:69.	1
	AuST 07/01/19 @ 12:59	
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[1]General v.a

## Make Scanning Easy

Mounted scanners

Touchless workflow

- Motion detection enabled
  - "Grocery Store" mode
- Successful scanning at height of just above keyboard

