

Ready to Use Packaging

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Challenges in the United Arab Emirates

- ④ Minimal availability of ready to use injectables:
 - Pre-filled syringes
 - vials vs. ampoules
 - Pre-mixes
- ④ Lack of barcoding on all products
- ④ Inability to outsource sterile compounding

Minimal Availability of Ready to Use Injectables

Clexane vs. Lovenox

Clexane®



Regular Needles

Lovenox®



Safety Needles

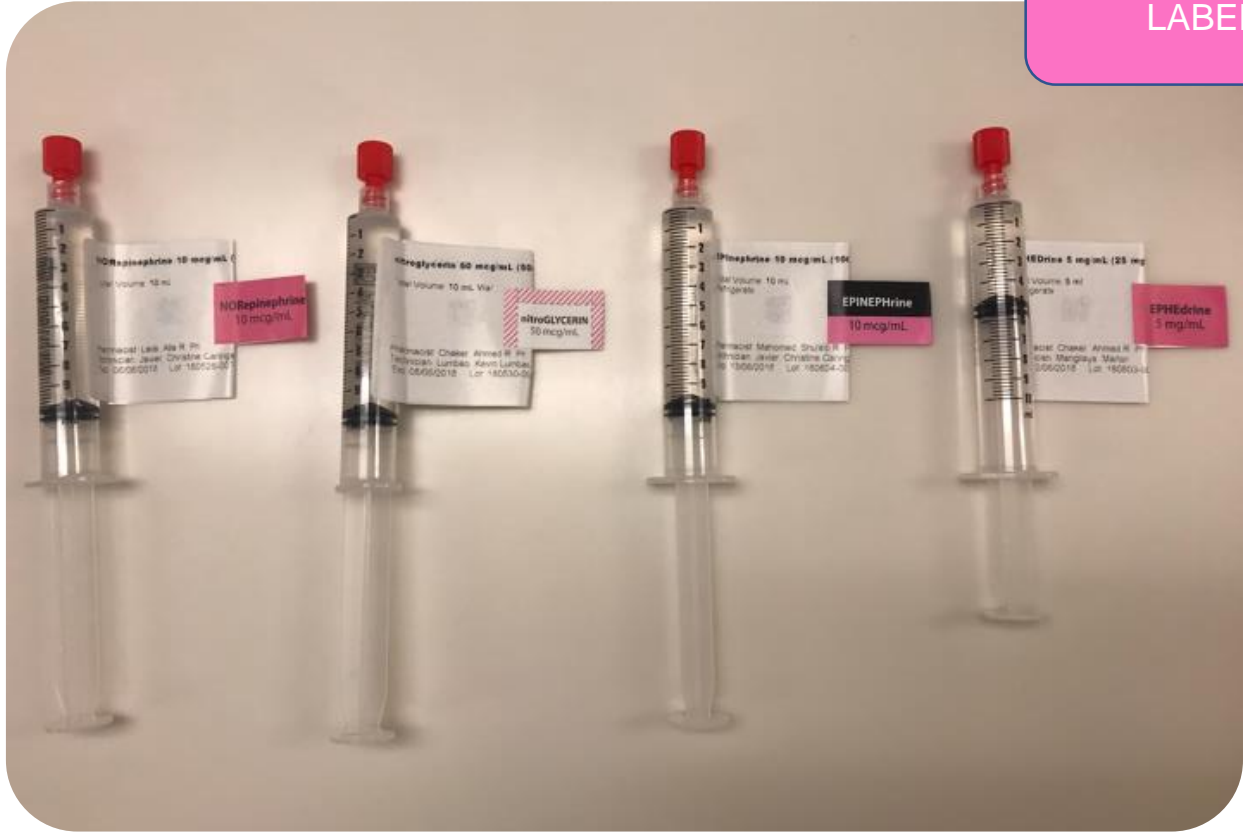
Batching Pre-filled Syringes

- ❖ Pharmacy batches several pre-filled syringes for Anesthesia:
 - NORepinephrine
 - nitroglycerin
 - epinephrine
 - EPHEDrine
- ❖ Products look-alike which results in potential for mix-up

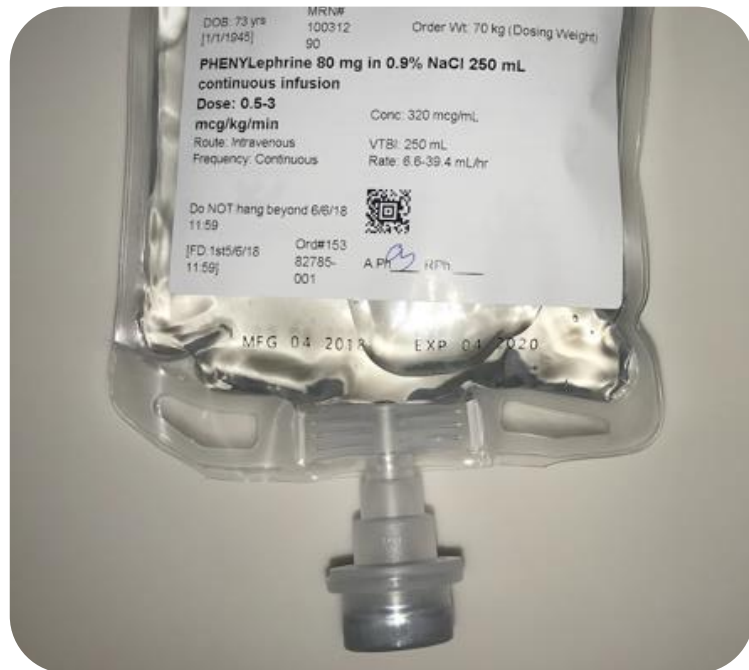


Batching Pre-filled Syringes

AUXILIARY LABELS



Batching Premixes



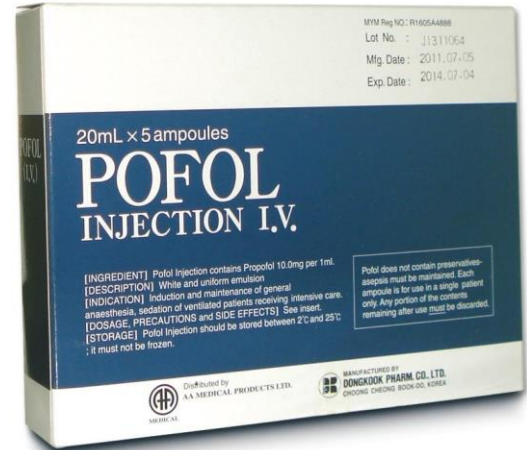
HydroMORPHONE 10 mg/mL

- ❖ Only strength available in the country up until 2015
- ❖ Imported directly from the United States at a unit-dose strength, however:
 1. Higher Cost
 2. Higher wastage due to short expiration/transport time
 3. Unsustainable stock due to UAE laws around ordering narcotics
- ❖ Unable to receive next batch until 2019
- ❖ Requires updating all our order sets each time a different strength is available



Propofol Ampoules

- ❖ Difficulty sustaining supply of vials and pre-filled syringes
- ❖ Majority of the stock is ampoules which are bulky and easy to break
- ❖ Current brand is a south Korean one
- ❖ Mitigation was placement of Styrofoam pads in our Automated Pyxis Cabinets (Will insert picture)



Look-Alike Products



Lack of Barcoding on Products

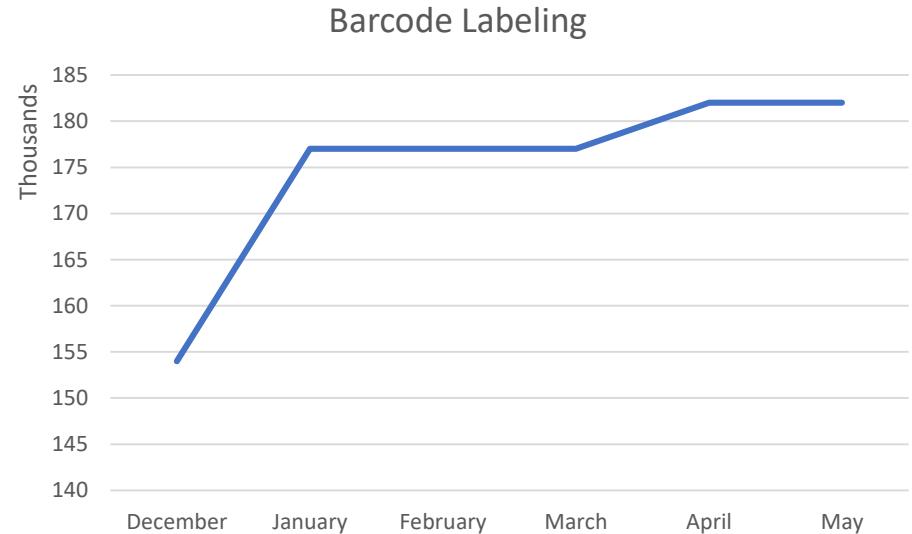
No Barcoding on Products

- ❖ Majority of products we receive do not have a barcode from manufacturer
- ❖ Pharmacy barcode labels every single medication on formulary

~1.6 K Medications

~175 K Labels/Month

*46% of Injectables in IV Room
Don't have a barcode from
manufacturer*



Barcode Labeling in Pharmacy

- ❖ ADVANTAGES:
 - Uniform packaging:
 1. Green Rain Code (NDC)
 2. Expiration Date
 3. Lot Number
 - Tracking Recalls

midazolam
(DORMICUM)
5 mg/1 mL injection

Lot#UDC28E16M
Exp:31/07/2020

CDA



13921971006

imipramine
(IMIPRAMINE)
10 mg tablet

Lot#UDC20F16A
Exp:31/12/2016

CDB



99994224001

morphine sulphate
4 mg/mL injection

Lot#UDC01F16B
Exp:01/07/2017

High-Alert
NARC



19284817014

Barcode Labeling in Pharmacy

PHARMACY

Dispense Preparation Details

Prepared By: Carmela Mendoza at 29/05/2018 19:01

Ingredient	Medication Used	Scanned?	Charge Amount**	Expiration Date	Lot Number
fentaNYL 500 mcg/10 mL (50 mcg/mL) injection (INJ)	fentaNYL 500 mcg/10 mL (50 mcg/mL) injection (INJ) [H02-1851-02293-01]	Yes	50 mL	30/04/2019	UDC22E18B
	fentaNYL 500 mcg/10 mL (50 mcg/mL) injection (INJ) [H02-1851-02293-01]	Yes	--	30/04/2019	UDC22E18B
	fentaNYL 500 mcg/10 mL (50 mcg/mL) injection (INJ) [H02-1851-02293-01]	Yes	--	30/04/2019	UDC22E18B
	fentaNYL 500 mcg/10 mL (50 mcg/mL) injection (INJ) [H02-1851-02293-01]	Yes	--	30/04/2019	UDC22E18B
	fentaNYL 500 mcg/10 mL (50 mcg/mL) injection (INJ) [H02-1851-02293-01]	Yes	--	30/04/2019	UDC22E18B
0.9% NaCl continuous infusion (IV)	0.9% NaCl continuous infusion (IV) [1748-3991-022]	Yes	250 mL	31/07/2019	y256701

** Packages not used for charging are denoted with --

Warnings

Warning	Alert Type	Barcode Data	Action Taken	Override Reason
fentaNYL 500 mcg/10 mL (50 mcg/mL) injection (INJ) Too many packages have been scanned for fentaNYL 500 mcg/10 mL (50 mcg/mL) injection (INJ) (Quantity scanned: 3,000 mcg; Quantity needed: 2,500 mcg).	Too many packages scanned	H021851022930130/04/2019UDC22E18B	Cancel Warning	

Action Summary

Action User: Jonathan Labios, RN

Charge Status: Not charged because pharmacy is set to charge on dispense

Patient Class: Inpatient

Admin Date and Time: 04/06/18 06:00 (Edited)

[Full Administration Report](#)

Scanned Medication

heparin 5,000 unit/0.2 mL Soln

Barcode

O703376027210130/10/2020UD29E18V

Package

O70-3376-02721-01

Expiration Date

30/10/2020

Lot Number

UD29E18V

NURSING

Inability to Outsource Sterile Compounding

Video of an Actual Event

<https://vimeo.com/242725788/dbc4d051c3>