

Medication Buggies

Jasmina Gafurova, Redzuan Raffe, and Ethan Stelmakh



Our Team



Jasmina Gafurova

- Chemistry and Music Double degree with Pre-Med Concentration
- Medical Assistant at NOVA Patient Care



Redzuan Raffae

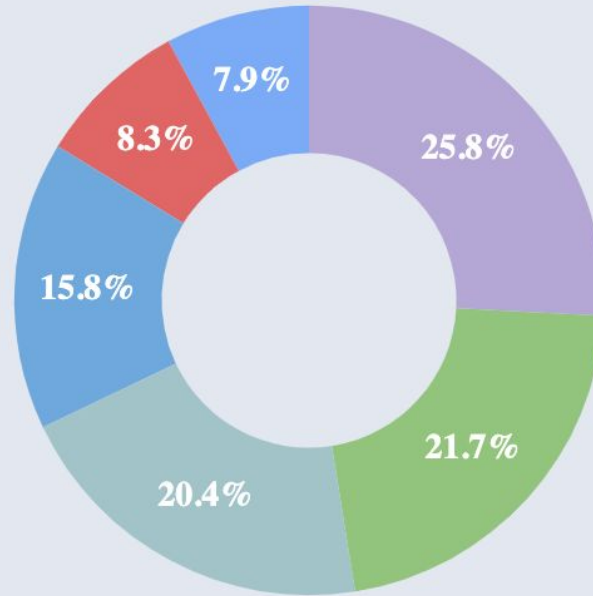
- Economics and Finance Double Major
- Pitch George 2x Finalist (won one)



Ethan Stelmakh

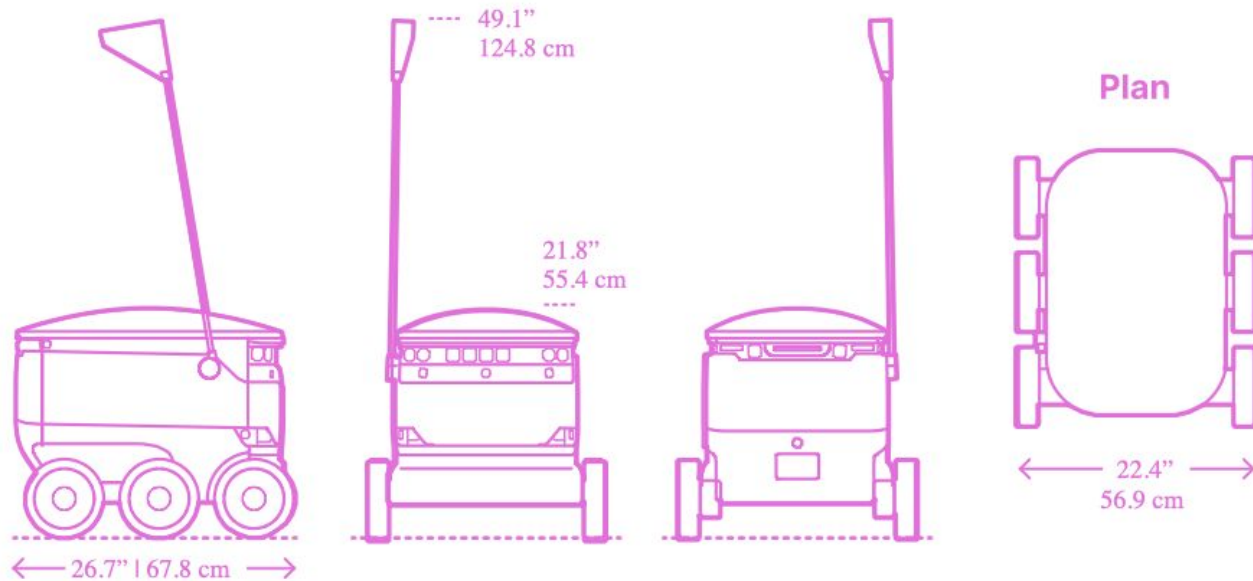
- Business and Public Health Double Major
- Certified Pharmacy Technician at GW Hospital

Why Medical Errors Happened



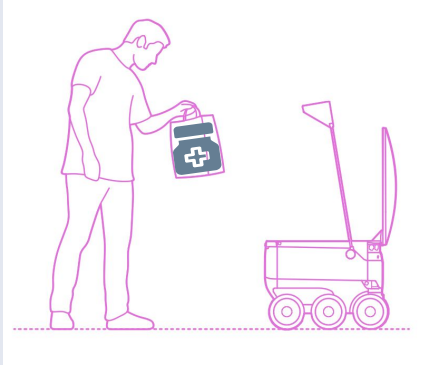
- Using acronyms of names
- Similar names of drugs
- Lack of pharmacological knowledge
- Few number of nurses compared to patients
- Too busy and tired from excessive work
- Large drug variety in med cabinet

Medication Buggies!

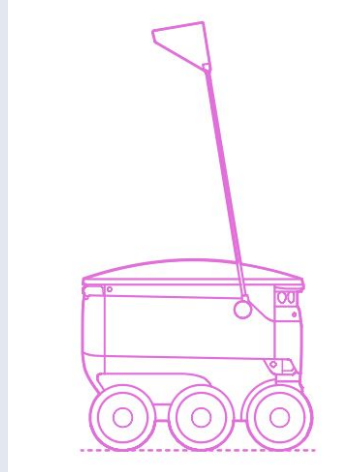


New Process of Medication Delivery

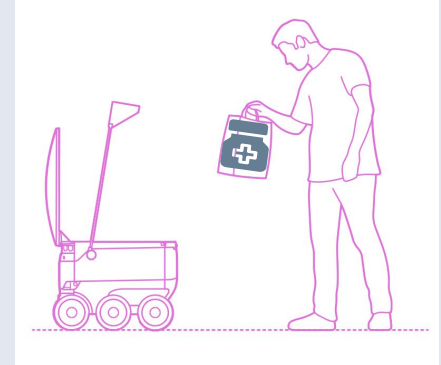
Dispensing



Verification



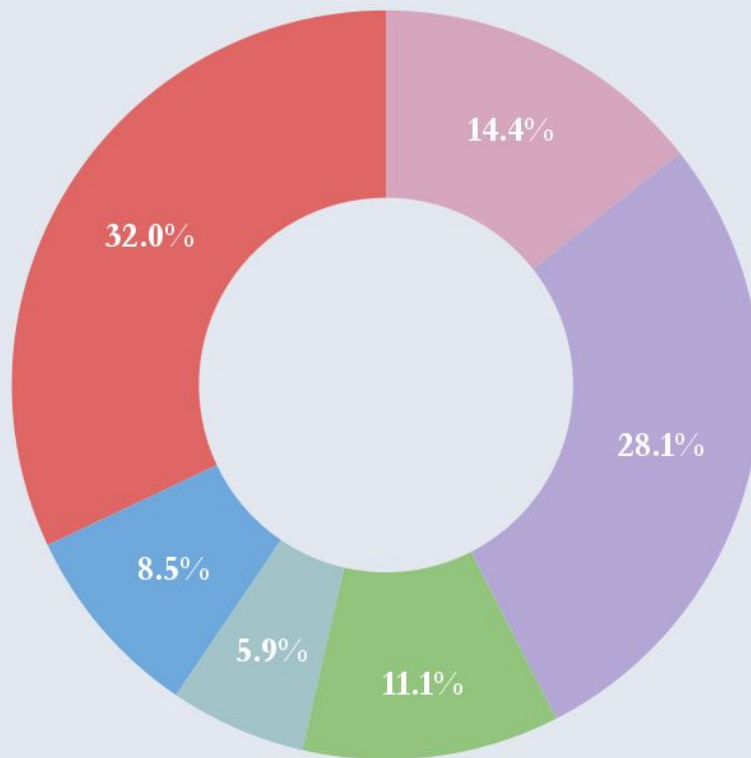
Administration





Types of Nursing Medication Error

- Giving Medication at non-scheduled times
- Giving the wrong dose of medication
- Giving medication of two doses at one time
- Giving a patient's drug to another one
- Drug Elimination
- Wrong infusion rate



User Interface

M

Romanoff, Natasha

Task

Edit

View

Options

Help

Romanoff, Natasha

MRN: 8475963

Age: 35 Years (03/07/1983)

Sex: Female

Location: C Ward 41 / - 02

FIN: 9787727

Race:

Admitted: 05/12/2018 09:00 AEDT

Physician:

Rx Clinical Note:

Pregnant: Unknown

Buggy

Romanoff, Natasha

Demographics

Height 0

Result Dt/Tm

Patient Note[]

Reason For Visit (1)

Allergies (1)

Medications

Problems and Diagnoses

Rx Clinical Note[]

Rx Interventions []

Acute Profile

Ambulatory Profile

Results

Interventions

Drug:

Add

Action	Status									Order Sentence	Start
	Active									amoxicillin 1,000 mg/ 2 cap(s) Capsule Oral THREE times a day	14/12/2018 20:00 AEDT
	Active									fluticasone 50 microg-salmeterol 25 microg 2 puff(s) Inhaler Inhalation ...	14/12/2018 20:00 AEDT
	Active									oxycodone 5 mg/ 1 tab(s) Tablet Oral 4 hourly PRN severe pain	14/12/2018 16:41 AEDT
	Active									paracetamol 1,330 mg/ 2 tab(s) Tablet, Modified Release Oral THREE ti...	14/12/2018 20:00 AEDT
	Active									perindopril 5 mg/ 1 tab(s) Tablet Oral daily	15/12/2018 08:00 AEDT
	Discontinued									sodium chloride 0.9% 1,000 mL Solution, Injectable IV Continuous Infus...	14/12/2018 16:41 AEDT

<

>

Submit

Cancel

Apply

UI Continued

Back

Commands

Buggy Selected: [24]

Recall Buggy

Dispatch Buggy

Load Buggy

(opens buggy compartment)

Back

Tasks

Buggy	Task	Location
1	Delivering to Room 304	2nd Floor Hallway
2	Recalled from Room 902	9th Floor Reception
3	Awaiting nurse in Room 437	Room 437
4	Standby Mode	2nd floor Pharmacy
5	Delivering to Room 789	In Elevator 7
6	Delivering to Surgical Suite 340	In Elevator 3
7	Standby Mode	2nd floor Pharmacy
8	Charging	Buggy Room
9	Charging	Buggy Room

Finance and Equity

18 hours per
charge

Lifespan of 60
months

32,400 Hours
of lifetime use

\$0.17 Per Hour

Thank you!

