

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 Raffe

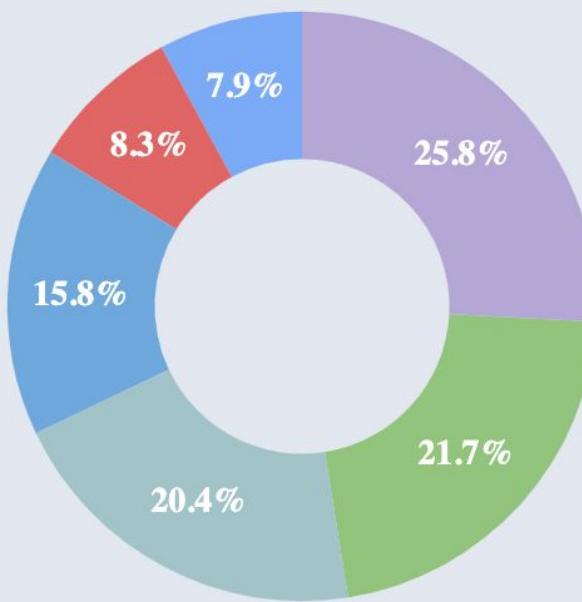
-Economics and Finance
Double Major
-Pitch George 2x Finalist
(won one)



Ethan Stelmakh

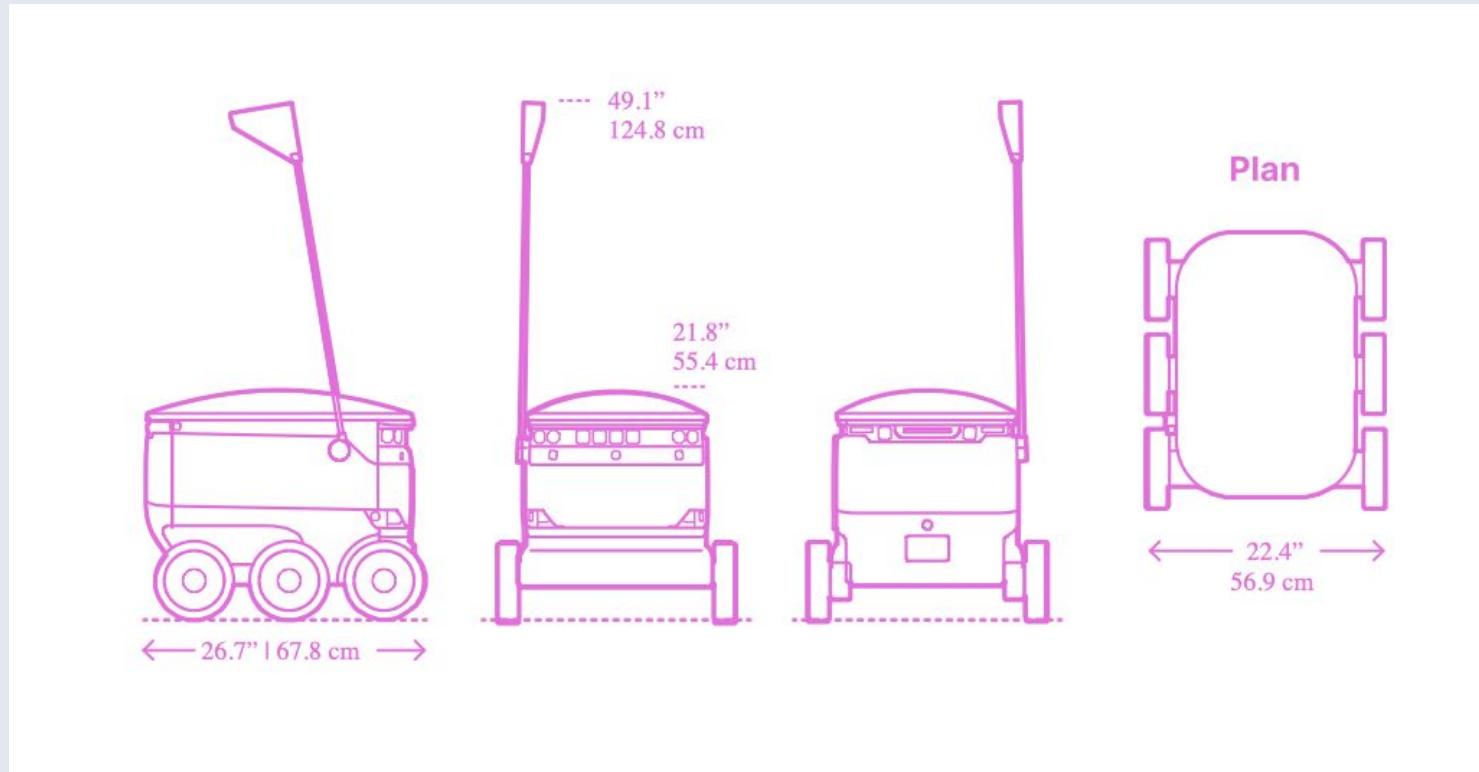
- Business and Public
Health Double Major
- Certified Pharmacy
Technician at GW
Hospital

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!

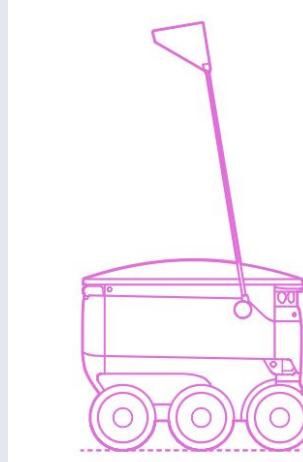
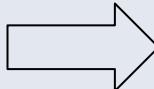
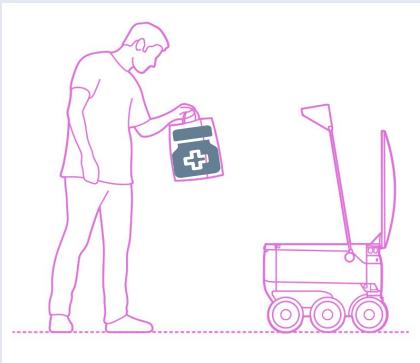


New Process of Medication Delivery

Dispensing

Verification

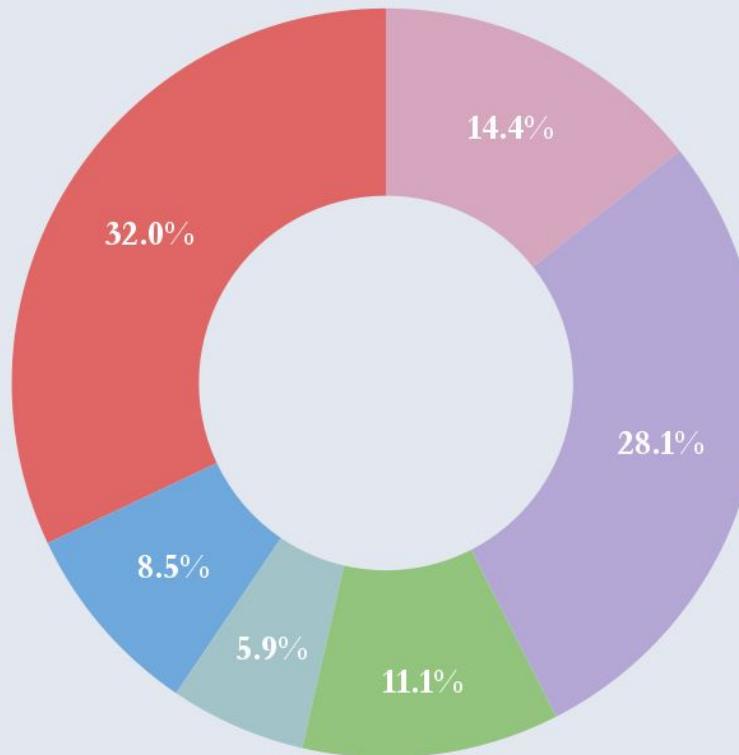
Administration





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

Acute Profile Ambulatory Profile Results Interventions

Drug:

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

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 ()

UI Continued

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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!

