

COVID-19 Vaccine Clinics Excel at Zero Waste

Poster Showcase
#IAEM22

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Background

- Many logistical challenges existed with the COVID-19 vaccine, including cold chain management, multidose vials, and a two-dose regimen.
- Reporting doses administered and doses wasted was required to continue receiving vaccine shipments.
- Vaccine allocation could be jeopardized if facilities had too many wasted doses.



Augustine, Lisa. Children's Mercy Nurse Administers COVID-19 Vaccine to Children's Mercy Employee. Kansas City, 28 Jan. 2021.

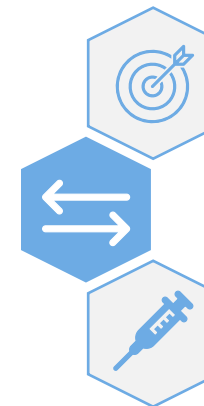
Project Overview

- Utilized a Vaccine Tracker Tool, developed internally with Microsoft Excel and Microsoft Teams, for clinic team and vaccine preparation team to communicate vaccine quantities throughout each clinic.

Vaccine Clinic appointments by timeslot (populated by Clinic Facilitator)				Dose Dashboard - to be displayed on screen in Pharmacy & Clinic				Pharmacy Deliveries to support each clinic hour (populated by Pharmacy Manager)						
Time	Total Slots	Filled	Available	Clinic Hour	# of Patients Scheduled (units calculated from appointment list to left)	Running total for appointments	# of Doses Delivered from Pharmacy (units calculated from delivery list to right)	Running total for doses delivered from Pharmacy	Total Difference	Clinic Hour	Time Delivered	Doses Delivered	Initials	
13:00	29	30	-1		13:00	0	50	50	0					
14:00	29	28	1		14:00	116	110	160	44	13:00				
14:15	29	28	1		15:00	136	242	90	250		13:00	13:00	50	RKO
14:30	29	29	0		16:00	116	358	190	480			14:06	40	AD
14:45	29	29	0		17:00	153	471	85	525			14:20	15	RKO
15:00	32	41	-9		18:00	113	566	128	650			14:28	15	AD
15:15	29	28	1		19:00	119	703	53	703			14:39	20	BO
15:30	29	29	0									14:48	20	BO
15:45	29	28	1											
16:00	29	29	0											
16:15	29	28	1											
16:30	29	28	1											
16:45	29	29	0											
17:00	29	30	-1											
17:15	29	28	1											
17:30	29	28	1											
17:45	29	29	0											
18:00	29	27	2											
18:15	30	30	0											
18:30	30	30	0											
18:45	30	30	0											
19:00	30	30	0											
19:15	30	30	0											
19:30	30	30	0											
19:45	30	30	0											
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23:30	30	30	0											
23:45	30	30	0											
24:00	30	30	0											

Benefits

- Vaccine preparation team had real time guidance on the quantity of vaccine to prepare as each clinic progressed.
- The tool was developed using readily available resources, allowing it to be generalized and shared with alternate vaccination sites.



Outcomes



Augustine, Lisa. Children's Mercy Pharmacist Prepares COVID-19 Vaccine. Kansas City, 25 Feb. 2021.

- The Vaccine Tracker Tool guided paced preparation.
- Preparation team was able to account for appointment cancellations and "no-shows" throughout the clinic.
- Clinic team could reliably anticipate vaccines delivered to be within 1 vial (± 6 doses) of amount needed to complete appointments.
- Each clinic concluded with zero deliverable waste.