



COVID-19 Vaccine Rollout: Effective and Equity-driven Operations

USPHAU | Learning Team | 24 Feb 2021

Participants in Attendance

- Catholic Charities Maine Health Choice Arizona
- refugee and Immigration services
- CDC Foundation
- City of Haverhill
- City of St. Louis
 Department of Health
- Cook County Health
- CORE
- Curamericas Global
- DHHS NCORH
- El Sol Neighborhood
 Educational Center
- Franklin County Public Health

- Health commons solutions lab
- Healthcare
 Collaborative of Greater
 Columbus
- Indiana University/ Fairbanks School of Public Health
- Indiana University/ Marion County Public Health
- Industrial
- Areas Foundation
- Inner City

- ✤ Kepro
- KKV
- Kokua Kalihi Valley
- Louisiana Department of Health
- LWDA
- Maine Immigrant Rights Coalition
- Mt Calvary Center for Leadership Development
- Muslim Action Network
- Nazareth Hospital
- ✤ NCDHHS
- Ohio Department of Health

- PHI Tracing Health Pacific NW
- Pima County Health Department
- Public Health Institute (PHI)
- Restart
- Service Year Alliance
- Sierra HealthFoundation
- Teton County Health Department
- The NARBHA Institute
- University of Cincinnati

Agenda

- 1 Welcome & Introductions
- 2 Framing Information
 - Case Studies
 - 1. Newark DOH
 - 2. El Sol NEC
 - 3. CORE (GA & Los Angeles)
 - 4. Ariadne Labs

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Q&A with Case Presenters, Discussion

Feedback Poll

US Vaccine Rollout by the Numbers

Doses administered per 100,000 population, 2/23/2021, 6am ET

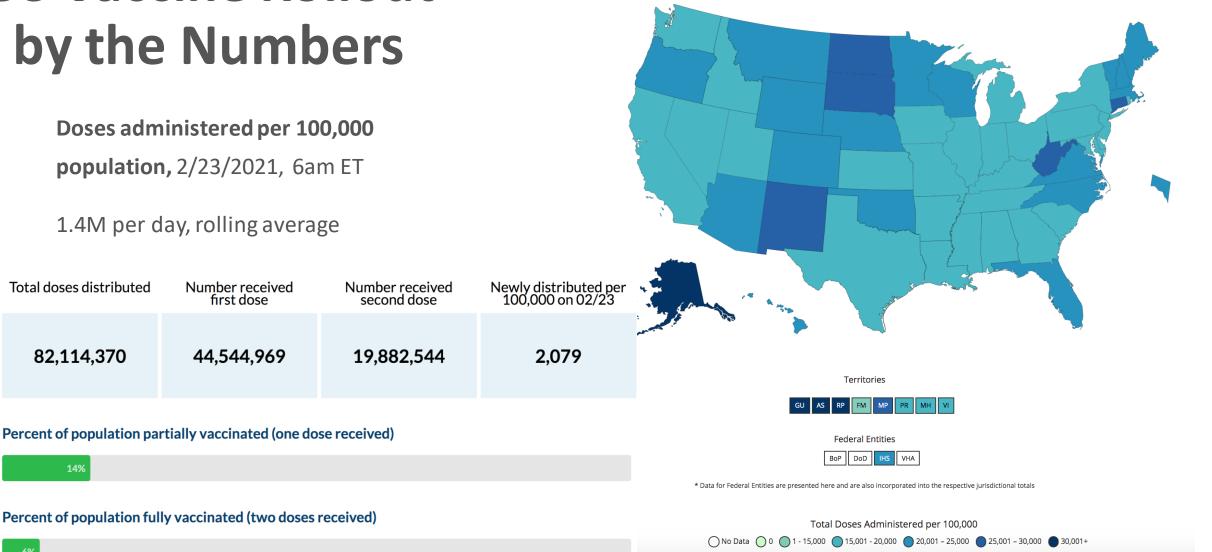
1.4M per day, rolling average

first dose

Total doses distributed

82,114,370

Total Doses Administered Reported to the CDC by State/Territory and for Select Federal Entities per 100,000 of the Total Population



Partners In Health, US Public Health Accompaniment Unit 4

Source - CDC Vx tracker: https://covid.cdc.gov/covid-data-tracker/#vaccinations

The New York Times

The Wealthy Are Getting More Vaccinations, Even in Poorer Neighborhoods

Officials acknowledge that the coveted shots are disproportionately going to white people and that planners' efforts to course-correct are having limited effect.

By Abby Goodnough and Jan Hoffman

Published Feb. 2, 2021 Updated Feb. 4, 2021

HEALTH Random People Are Lining Up to Get Vaccinated in D.C. Grocery Stores

Pharmacies have started quietly offering leftover COVID-19 shots to anyone around. You can guess where this goes.

JACOB STERN JANUARY 13, 2021

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BUSINESS / MONEY

Hospitals Help Wealthy Donors 'Skip the Line' for Vaccines

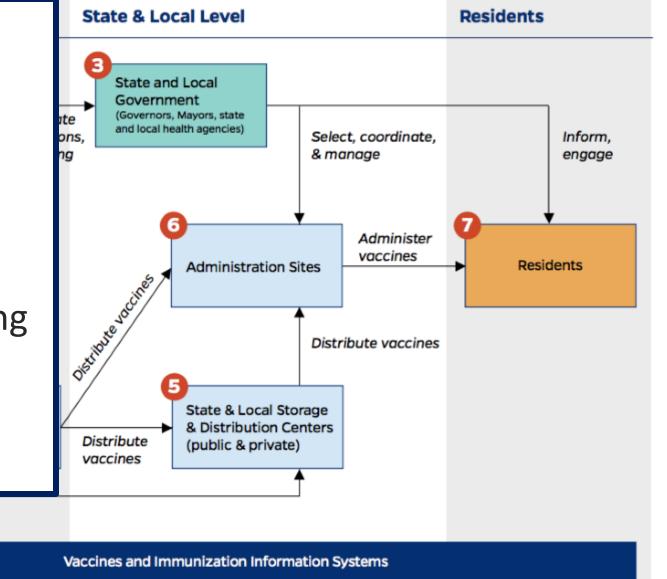


By Dawn Allcot February 23, 2021

Exhibit 1 US COVID-19 vaccination delivery chain

Distribute vaccines

- **Community** awareness
- **Registration and scheduling**
- IT systems
- Site ID and setup
- Staffing
- Storage and Handling
- Workflows to managing dosing requirements
- **Reporting and analytics**
- And more...



Partners In Health, US Public https://bloombergcities.jhu.edu/sites/default/files/2021-02/Vaccine%20Toolkit%20Role%20of%20Mayors_0.pdf



Dr. Mark Wade Director, City of Newark Department of Health and Community Wellness



Alex Fajardo, MCP, CFC Executive Director El Sol Neighborhood Educational Center



Marlina Crespo COVID-19 Program Manager Community Organized Relief Effort (CORE)



Virginia Chu Planning Unit Manager CORE-GA



Julie Rosenberg, MPH Better Evidence Assistant Director Ariadne Labs

Case Study Presenters







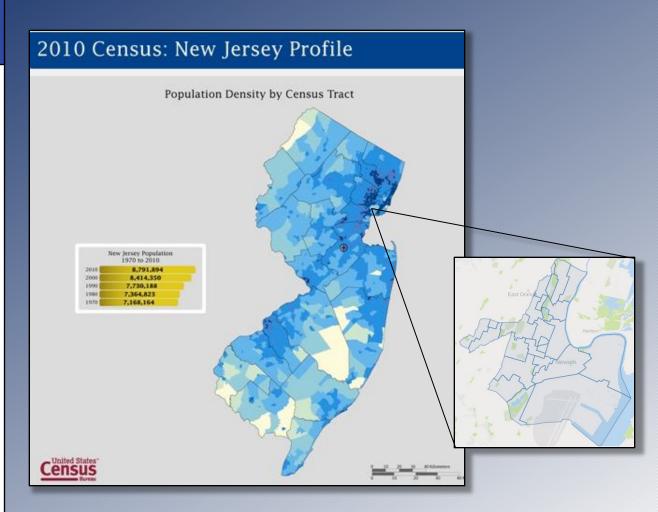
COVID-19 Vaccine Rollout: Newark, New Jersey

PIH Learning Collaborative Webinar February 24, 2021

Newark At A Glance

The city has been hard-hit by COVID, both in health outcomes and economic livelihood

- Newark has a population of ~282,000; and is predominantly Black or African American (47%) and Hispanic or Latino (39%)
- Large language diversity: about half of Newark residents speak only English at home
- Median household income is significantly lower in Newark (\$37,642) as compared with the US (\$63,179)
- The percentage of citizens living below the poverty line is significantly higher in Newark at 24.6% in comparison with the US (11.8%)
- Residents report overall poorer health indicators, are underinsured, and have lower access to preventive care measures
- The City has a robust network of trusted and respected community-based organizations and houses of worship, and a strong *culture of care*



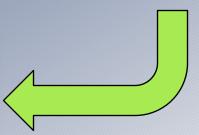
City of Newark Vaccination Planning

How?

- Conduct healthcare partner outreach and coordination in November
- Calculate **estimated throughput** of small, medium, large sites
- Estimate additional number of sites needed to reach 70% of population within 6 months
- Identify staffing resources and gaps
- Design, plan and **mobilize resources** to avail population with as many vaccines as possible within 6 months
- Consider high priority and special needs populations

	Seat 1	Seat 2	Seat 3	Seat 4	Seat 5	Seat 6	Seat 7	Seat 8
Pre-Seat	Registration							
5 min	Vaccinate				Vaccinate			
10 min	Observe	Vaccinate			Observe	Vaccinate		
15 min	Discharge	Observe	Vaccinate		Discharge	Observe	Vaccinate	
20 min	Sanitize	Discharge	Observe	Vaccinate	Sanitize	Discharge	Observe	Vaccinate
25 min	Vaccinate	Sanitize	Discharge	Observe	Vaccinate	Sanitize	Discharge	Observe
30 min	Observe	Vaccinate	Sanitize	Discharge	Observe	Vaccinate	Sanitize	Discharge
35 min	Discharge	Observe	Vaccinate	Sanitize	Discharge	Observe	Vaccinate	Sanitize
40 min	Sanitize	Discharge	Observe	Vaccinate	Sanitize	Discharge	Observe	Vaccinate
45 min	Vaccinate	Sanitize	Discharge	Observe	Vaccinate	Sanitize	Discharge	Observe
50 min	Observe	Vaccinate	Sanitize	Discharge	Observe	Vaccinate	Sanitize	Discharge
55 min	Discharge	Observe	Vaccinate	Sanitize	Discharge	Observe	Vaccinate	Sanitize
60 min	Sanitize	Discharge	Observe	Vaccinate	Sanitize	Discharge	Observe	Vaccinate
65 min		Sanitize	Discharge	Observe		Sanitize	Discharge	Observe
70 min			Sanitize	Discharge			Sanitize	Discharge
75 min				Sanitize				Sanitize

Туре	Number of site	Weekly capacity for Newarkers		
Site type 1 (UH)	1	3780		
Site type 2 (small, DOH/FQHC)	2	1536		
Site type 3 (medium size, 16 chair)	4	9216		
Site type 4 (Essex CC)	1	2700		
Total weekly vaccinations f	for Newarkers 17,23			
	weeks	months		
Time to vaccinate 100%	24.4	6.11		
Time to vaccinate 70%	17.1	4.28		
	Target (6 months	-		



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Citywide Vaccination Efforts

City-Run Vaccination Clinics							
DOH: FQHC clinics	2						
DOH/DPS: High-school ward sites	2 (+2 more mid-March)						
Mobile / pop-up clinics for priority and hard-to-reach populations	Various						
County & Partner Clinics							
County Sites	2 in Newark (5 total)						
Hospitals (University Hospital, Newark Beth Israel)	2						
FQHCs (St. James, Newark CHC, Jewish Renaissance Center)	3 (5 total locations)						
Private Pharmacies (Shoprite, Liss)	2						
TOTAL Vaccine Sites in Newark	15, with various pop-ups						

Outreach to Priority Populations: Seniors & Unhoused

How to best reach:

- 1800 unhoused residents (18 shelters)
- 6600 senior housing residents (35 senior housing buildings)
- Less likely to choose to or be able to travel to static clinic locations

Mobile Team Approach:

- Unhoused and shelter pops (pending):
 - Large shelters (on site)
 - Drop-in centers
 - Street outreach
- Senior Housing (2-3 teams per day)
 - 35+ senior housing buildings

	Schedule for Senior Housing Buildings and Residents Without Addresses											
-Team A	-Team A will focus on vaccination of the homeless population											
-Teams	-Teams B and C will focus on vaccination of the senior buildings											
-Each te	-Each team will be expected to work 6 days a week for an 8 hour shift (this may not fall in 9-5 hours to best accommodate people's schedules and shift work, esp at shelters); Thus each team is scheduled for 24 days to all											
-Larger I	Larger buildings and shelters (>100) will be scheduled for at least 2 days, in order to cover the full buildings and allow for those who work specific days and shifts to have more opportunities for access											
-Assume	Assume vaccination rate of 70%, though current interest in uptake may be lower for now											
-Team A	Team A will be mobile and provide vaccines at larger shelters. During days when not at shelters, the team will be based at either Shani Baraka or NJCRI drop in centers, and will provide vaccines for smaller shelters and ur											
-Bus tra	Bus transportation will be privided for all staff and residents for each shelter on specified days.											
Team		Drys needed to							otal 70%	Total 100%	,	8
		viccinate 70%	Loc	ation	Day (Round 1)	Name	Address	Ward	vaccination	accinatio	Max	Capacity
(A, B, C) -	8-seat model)		Ŧ	Ψ.	¥	· · · · · · · · · · · · · · · · · · ·		vaccination	accinatio	• -	-
А		3		site		224 Help Center	224 Sussex Ave	North	319		456	431
Α		0	2 24	ļ	Day 1-4	Urban Renewal Corporation	689 South 16Th Street	South	27		38	38
Α				site	Day 5-6	Apostle'S House	16-18 Grant Street (24 Grant Street)	Central	24		34	12
Α				stle's	-	Apostle'S House	513-515 Avon Ave	Cent al	19		27	17
Α				site		Holiday Inn	160 Frontage Road		140		200	200
A				site	Day 9-10	New Community Harmony House	278-282 South Orange Ave.	Wet	181		259	250
A				Rocco's	Day 11-12	St. Bridget'S	47-71 Miller Street 3Rd Floor	South	25		36	30
A			On		Day 11-12	St. Rocco'S	368 S 7Th Street	West	55		79	59
А				ite		The Restoration Center	278-306 South 12Th Street	W∉st	98		140	140
A						Newark Transitional Corp.	198 Clinton Avenue	Central	34		48	40
A		-		pration Cent		Newark Transitional Corp.	212 Peshine Avenue	No th	21		30	22
A			On			YMCA	600 Broad Street	East	221		315	292
A			SB			Newly Destined	1114 Broad Street	Central	32		45	39
A			SB			Circle Of Life	55 Tillinghast Street	Scuth	45		64	53
A			SB		· ·	Fairmont Health Services	202 Fairmont Avenue	W st	29		41	35 20
A			SB			Missionaires Of Charity	60 Jay Street	Nc th	15		22	20
A		0	NJC	ા	Day 21-24	United Community Corporation	31 Fulton Street	East	35		50	20
A		0	NJC	રા	Day 21-24	Covenant House	330 Washington Steet	Eat	48		69	45
В		1		On site	Week 1, Day 1-2	Stephen Crane Elderly 22-C	801 North 6th Street	Noth	149		213	213
С		1		On site		Stephen Crane Elderly 22-D	900 Franklin Ave	Norh	130		186	186
С		1	9	0 Franklin Ave		Stephen Crane Elderly 2-16	60 Cedar Lane	Norh	55		79	79
В		1		On site		Kretchmer Elderly 21A	991 Frelinghuysen Ave	Sout	109		156	156
В		0		991 Freling		Kretchmer Elderly 2-17	35 Van Vechten Street	Sout	43		62	62
В		1		On site		Branch Brook Manor	1 Branch Brook Plaza	North	161		230	230
В		1		On site		Seth Boyden Elderly 21-E	130 Dayton Street	South	72		103	103
С		1		On site		Seth Boyden Elderly 21-F	46 Evergreen Ave	South	71	1	102	102
В		1		On site		James C. White 2-25	516 Bergen Street	Central	129		184	184
С		1		On site	Week 1, Day 6	Lincoln Towers	9 Lincoln Street	Central?	137		196	196
В		2	C	VS: HUD 202	CVS?		444 MT Prospect Ave	North	19/	-	280	280

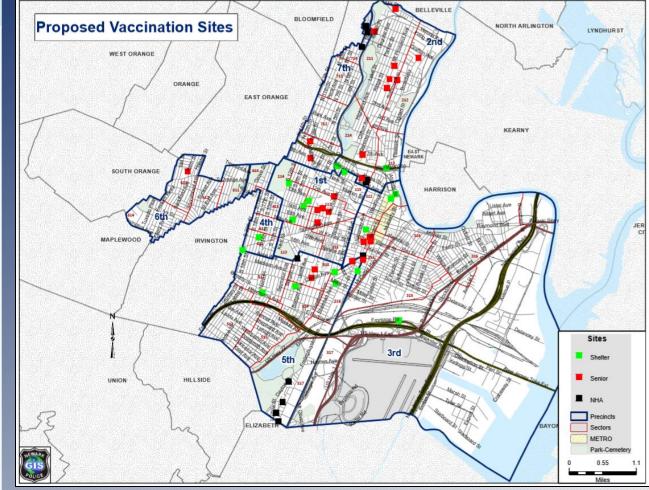
Priority Populations: Seniors

Provider	Sites Covered	
City of Newark / DOH	32 Sites	
CVS	444 Mt. Prospect Ave Grace West Manor	
St. James	Branch Brook Manor 505 Mt. Prospect Ave 595 Mt. Prospect Ave Donald Bradley Complex	

• Stephen Crane Elderly 22-C	One Court Street
• Stephen Crane Elderly 22-D	Baxter Park
• Stephen Crane Elderly 2-16	 2 Nevada Street
Kretchmer Elderly 21A	 Villa Victoria
Kretchmer Elderly 2-17	 Baxter Elderly 22-B
Seth Boyden Elderly 21-E	 St Mary's Villa
Seth Boyden Elderly 21-F	 1060 Broad Street
• James C. White 2-25	 10 Hill Street
Lincoln Towers	RPM Community/Springfield
• 711 Broadway A	Senior Residence
Parkside Manor	New Community
New Community	 New Community
New Community	 75-97 Shalom Towers
• 502 Summer Ave	City View Senior
New Community	 Harrison Park Sq
New Hope Senior Building	 Boulevard
New Community	

Priority Populations: Unhoused & Unsheltered (Planned)

Provider	Sites Covered
DOH / NJCRI	 224 Help Center Urban Renewal Corporation Apostle's House (x2) Holiday Inn New Community Harmony House St. Bridget's St. Rocco's The Restoration Center Newark Transitional Corp. (x2) YMCA Newly Destined Circle Of Life Fairmont Health Services Missionaries Of Charity United Community Corporation Covenant House Outreach to encampments / unhoused



Vaccine Rollout: Monitoring and Evaluation

Information Sharing

- Coordination with healthcare vaccination partners in February
- Agreed upon need for increased situational awareness and reporting
- City of Newark in process of implementing data reporting and evaluation system
- Weekly vaccination progress to be monitored

	02/22/2021 1st doses	1st doses (Newarkers)	02/22/2021 - 2nd doses	Total	% 1st doses Newarkers
St James					
Newark CHC					
Dept. of Health				~ (
JRMC			-nL	5	
Univeristy Hospital		- (NGKE		
Newark Beth Israel		nRl			
Essex County:					
Dept. of Health JRMC Univeristy Hospital Newark Beth Israel Essex County: Total Essex County: t					
Total					
Essex County: t					
		pulation		Total % Vaccinat	ed
	282,090			%	





Municipal Council MILDRED C. CRUMP Council President/Council Member-at-Large

LUIS A. QUINTANA Vice President/Council Member-at-Large

> AUGUSTO AMADOR Council Member, East Ward

CARLOS M. GONZALEZ Council Member-at-Large

JOHN SHARPE JAMES Council Member, South Ward LaMONICA McIVER Council Member, Central Ward

JOSEPH A. McCALLUM Council Member, West Ward

EDDIE OSBORNE Council Member-at-Large

ANIBAL RAMOS, JR. Council Member, North Ward



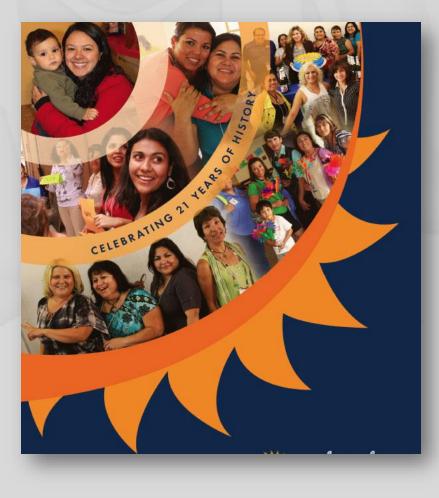
COVID-19 Vaccine Rollout: Effective and Equity-Driven Operation

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Alexander Fajardo

February, 2021

El Sol Neighborhood Educational Center



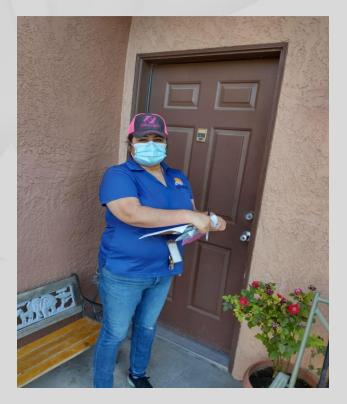
• Year founded: 1991

- Mission: To empower our communities to lead healthy lives & access to healthcare, safe, affordable housing; opportunities for education; and the leadership to eliminate disparities.
- Vision: Our Community members will reach personal empowerment to move towards self-sufficiency and contribute to their community's well being.
- Region: Inland Empire, CA



What Do We Do?

With a focus on prevention and public health we work on education, health promotion, and community engagement.





How Do We Do It?

We provide culturally-competent health education, outreach and community development through our

Community Health Workers/Promotores de Salud.







Vaccination Case # 1 San Bernardino County City of Adelanto Rural Area 23

Process

Planning
Securing Supplies and Materials
Recruitment
Vaccination
Follow Up













Vaccination Case # 2 Riverside County Coachella Valley Farmworkers 33

Process

Planning
Registration
Securing Supplies and Materials
Vaccination
Follow Up













Lessons Learned

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Lessons Learned

- Each community needs different strategies.
- Must involve community members on the solution.
- Be honest with County Departments.
- Create an action plan for the vision of the implementation.
- Be patient.



Contact Information



Alexander Fajardo Executive Director

Phone: (909) 884-3735 Email: alexfajardo@elsolnec.org

Website: www.elsolnec.org



CORE Community Organized Relief Effort

Georgia & Los Angeles

Virginia Chu & Marlina Crespo



Mobile Flu Vaccination- GA



- Georgia ranked 45th for influenza vaccinations
- 15 different mobile Covid-19 testing sites (4 counties)
- Nearly 800 vaccinations
- 5% of vaccinated in DeKalb county first time flu shot
- Utilized language skills of testing staff

Lessons

Clinical staff scheduling and needs, vaccine transport, engaging in vaccine discussion

Mobile Covid-19 Vax- GA

- Memorial College Ave Vaccinators go to
- patients
 - Patients go to

- Local health clinic: Phase 1A+ and zip code eligibility
- Alternative flow maps depending on weather
- 522 vaccinations in 3 days



vemorial/college:aw



Mobile Vax Units - LA



Sun, 02/14/21	M1	M2	M3	M4	MS
Site Location & Address	Slauson Super Mall Address:	Metro Station Address:	Sears Address:	Baldwin Hills Address:	South Park Address:
Vaccine			N	M	
Testing Times	0900-1500	0900-1500	0900-1500	0900-1500	0900-1500
Flu Vaccine Collaboration					
LAFD TEAM LEAD					
CORE TEAM LEAD					
Passenger Van	NO VAN	NO VAN	VAN	VAN	VAN

Mobile Vax Units - LA

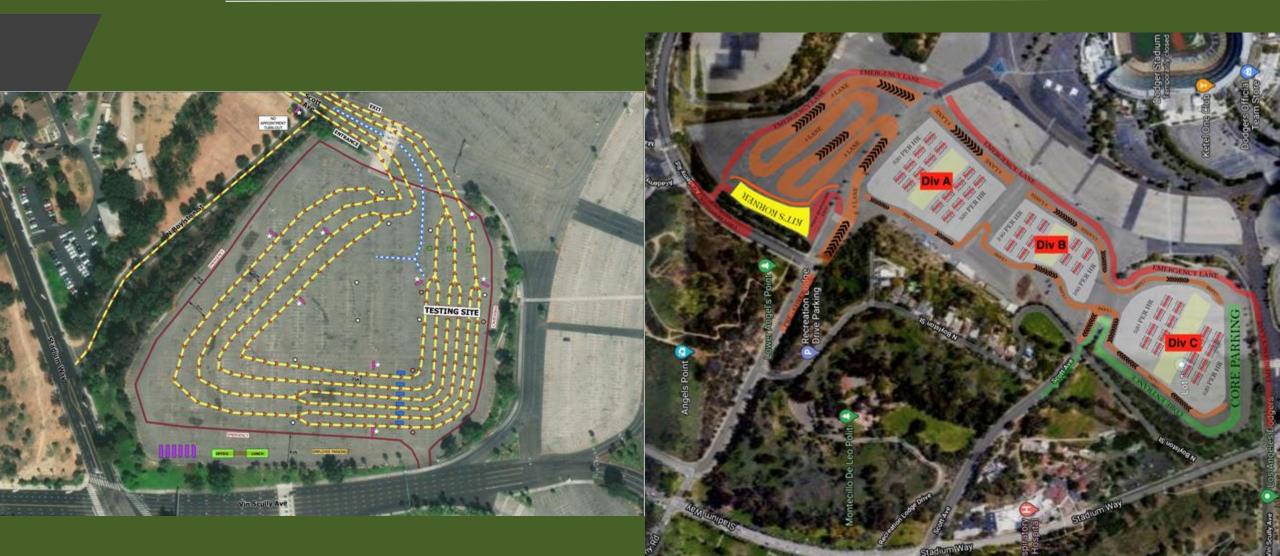








Mass Testing & Vax - Dodgers







Considerations

- Appointment scheduling
- Targeting specific populations
- Adapting staff for vaccines
- Language skills
- Internal communication between partners





Monitoring Capacity and How to Plan Accordingly



- Key performance indicators
 - Doses/clinician, doses/day, patient throughput
- Expand reach with additional sites





BRIGHAM HEALTH BRIGHAM AND WOMEN'S HOSPITAL

SCHOOL OF PUBLIC HEALTH

CHAN

+

Maximizing the Impact of COVID-19 Vaccinations: With Speed, Scale, and Equity

Julie Rosenberg, MPH

Vaccination requires robust vaccine delivery strategies

Framework for Equitable and Effective Vaccine Delivery

ALLOCATION

Identify the right populations for equitable distribution

DISTRIBUTION

Get the right vaccine to the right people at the right time in the right place

VERIFICATION

Ensure proper distribution and track progress towards herd immunity

DEMAND

Generate demand and address hesitancy, tailor engagement, communicate



Weintraub, R; Submaranian, L; Karlage, A; Ahmad, I; Rosenberg, J; COVID-19 vaccine to vaccination: Why leaders must invest in delivery strategies now. Health Affairs. November 2020.



Vaccine Allocation Planner

\$E



Vaccine Allocation Planner for COVID-19

States are currently allocating the first shipments of COVID-19 vaccines to their highest priority populations. The Vaccine Allocation Planner for COVID-19 helps state and county decision makers by estimating the size of these populations in every county of the US and the percent vaccine coverage achievable under various scenarios. This tool uses the 13 priority populations identified by <u>The National Academies of Sciences, Engineering, and</u> <u>Medicine (NASEM) Framework for Equitable Allocation of COVID-19 Vaccine</u>. Users can order these priority groups according to recommendations from either NASEM or the CDC's Advisory Committee on Immunization Practices (ACIP).

LECT A STATE		SELECT THE DOSE REGIMEN	
Massa	chusetts ~	1 dose 2 dose	
I. SEL	ECT GROUPS TO VACCINATE	-	If <u>Massachusetts</u> has <u>101,387</u> courses of vaccine available and <u>560,201</u> people
	DISPLAY GROUPS AS RECOMMENDED BY		to vaccinate, then the allocation across counties and groups will be:
	NASEM		Graph Table Map
Phas		People	BY COUNTY
1a	High risk workers in health care facilities	512,995	
	First responders	47,206	Courses Allocated Total Eligible People 0 20k 40k 60k 80k 100k 120k 140k
	Provide with state if and somethid and distance		Suffolk
	People with significant comorbid conditions	0	Middlesex
1b	 Older adults in congregate or overcrowded 	0	Worcester
	settings		Essox
	Critical risk workers (part 1)	0	Norfolk
	Teachers and school staff	0	Hampden Bristol
		1	



https://covid19vaccineallocation.org/

Find Your Place in the Vaccine Line



Impact

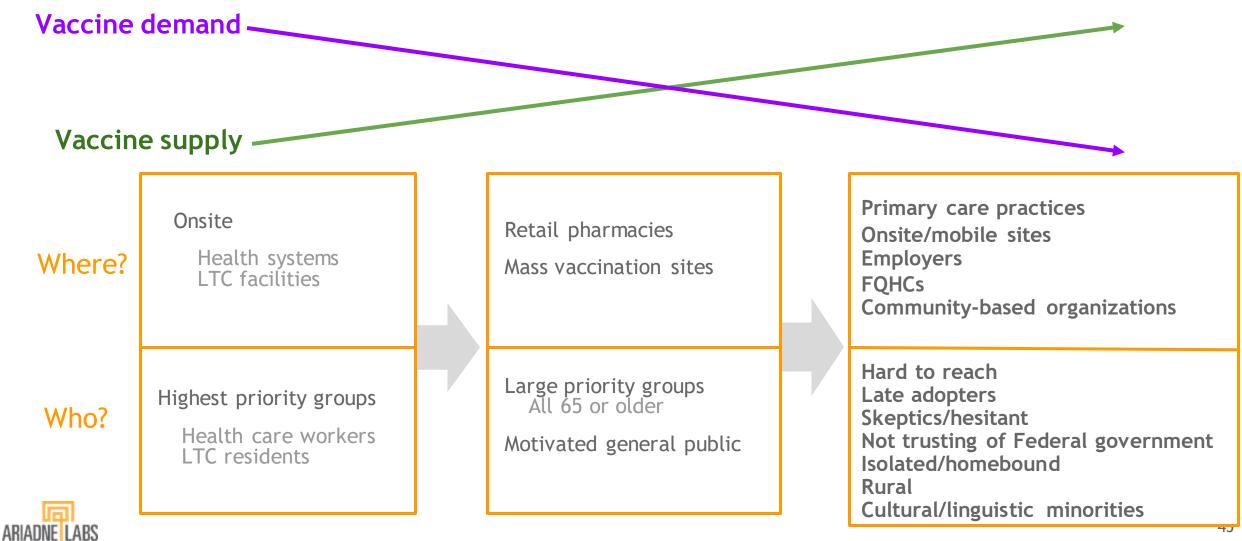
- People posting screenshots of their place in line
- Empathy, understanding

Upcoming

 Working on follow-up piece that will address timing as well as with Washington Post, Univision, the Guardian and USA Today



Vaccination needs to succeed through the "last mile"



How much will it cost for Primary Care sites to open up?

We are modeling the workflow, time requirements, and costs

for primary care clinics to offer COVID vaccines.

- \rightarrow Advocate for higher reimbursement rates
 - \rightarrow Inform operations and investments

See: https://vaccinebudgetcalculator.shinyapps.io/OutpatientVaccineCostCalculator/











We work to deliver the best possible care for every patient, everywhere, every time



Moderated Q&A

Closing Announcements

Thank you to our presenters, attendees, moderator, and Learning Team!

Announcements

- We will share slides and recording, along with a set of vx resources
- Today is part 2 of USPHAU Learning Team Vaccine Webinar Series
- Registration Link for our email list + full Resource Library will be emailed: <u>https://learning.pih.org/contact</u>

For more information on Partners In Health's US Public Health Accompaniment Unit, and to access small set of resources: https://www.pih.org/us-public-health-accompaniment-unit Session 1: Centering Community Engagement/Shifting Centers of Power Wed. February 3 Speakers: WV Public Health, Chicago VCP, Urban Indian Health Institute, Montgomery Key themes: Community leadership + engagement in communications, distribution, workforce

Session 2: Logistics, Allocation, and Distribution Wed. February 24 Speakers: El Sol NEC; CORE (Los Angeles and Atlanta); Newark, NJ; Ariadne Labs Key themes: Tools and strategies for flexible + adaptive planning, allocation, distribution, and tracking

Session 3: Vx in the Cascade of COVID Response Wed. March 17

Key themes: Vx as part of bundle, role of other aspects of response, challenges in other pillars through rollout

US Public Health Accompaniment Unit

For more information please contact LearningCollab@pih.org

