

Boston Medical Center HEALTH SYSTEM

Interrogating (Racial Health) Equity at Boston Medical Center Health System

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Vice President of Mission
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Princeton Conference October 14, 2021

Who We Are

As the largest safety-net hospital in New England with 1 million patient visits annually, we have an incredibly diverse patient population and are deeply rooted in our community:

- More than 80% of our patients are publicly insured or uninsured
- One in four of our patients report housing insecurity

- 77% of BMC patients identify as non-White
- We have a history of deep partnership with local community organizations

We are a leader in models of care that address upstream drivers of health...

... and in delivering care designed with and for our community

What is the role of a safety net hospital? Charity? Or Equity?

We have decades of experience developing models of care that address upstream drivers of health





Improving children's health in America by informing policies that address and alleviate economic hardships

Extending tangible outreach to patients' families such as nutritious foods, clothing, transportation, proper housing and other necessities

MLP | Boston



Integrating the expertise of lawyers into healthcare settings to help clinicians address structural problems at the root of health inequities

Equipping patients with the skills, services and opportunities to make positive changes in their lives and their communities



Building a national movement to incorporate financial wellbeing into healthcare



Empowering families to define their health priorities and design their own care

No change in outcomes



Mother and child



Chronic conditions¹



Oncology



Infectious diseases



Behavioral health



Rationale

In Boston, infant mortality is 4.1x higher for Black infants and 3.4x higher for Latinx infants than white infants

In the US, pregnancy-related deaths are 3.2x higher for Black women than white women

In Boston the **diabetes mortality rate** is **1.6x** higher for Latinx residents and **2.3x** higher for Black residents compared to white residents

Sickle cell disease impacts almost exclusively Black patients

In Boston, Black residents are 1.5x more likely to suffer premature death from cancer

In Boston, Black residents are 2.6x more likely to die from prostate cancer

In Boston, Black residents are 1.2x more likely to die from breast cancer

In Boston, COVID-19 cases are 1.5x higher in Black communities² and 2.2x higher in Latinx communities

In Boston, HIV incidence is 3.3x higher in Black communities

In Boston, Black residents are 1.4x more likely and Latinx residents are 1.7x more likely to suffer persistent sadness

In the US, Black residents are 1.8x more likely to attempt suicide

In Boston, the homicide by firearm rate is 50x higher for Black males Boston Accountable Care Organization's Black child members are 1.8x as likely to by identified as having experienced abuse or neglect

Why Healthcare? Why do we care?

- Correlations between health and wealth: we are ineffective
- Patients cannot prioritize health: prioritizing survival
- Vicious cycle of instability (not ideal investment and business model)
- Lower income and lower health status
- Lower education (> 25 years old)
- Life expectancy
- Median net wealth gap (BOSTON)



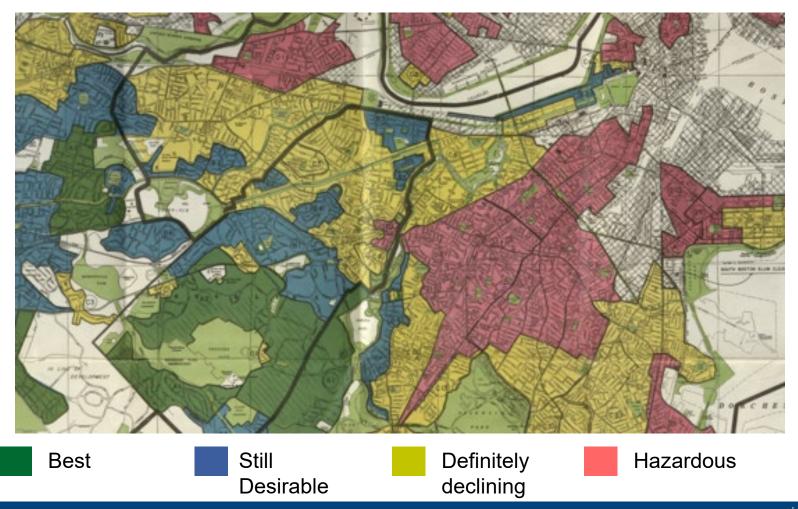
...and despite the fact that they do not differ greatly on geographic closeness to health services



- Lower income
- Premature death
- Lower education
- Lower life expectancy
- Homicide rates

Understanding how disparities have been created is the foundation for seeking long term solutions

Federal Housing Authority practice of redlining denied mortgages to African American and Low Income Populations





From the start, the pandemic has had a disproportionate impact on the patients we serve

Inside Boston Medical Center: The heart of the coronavirus storm

In the city's safety-net hospital, seven out of 10 admitted patients are sickened by COVID-19

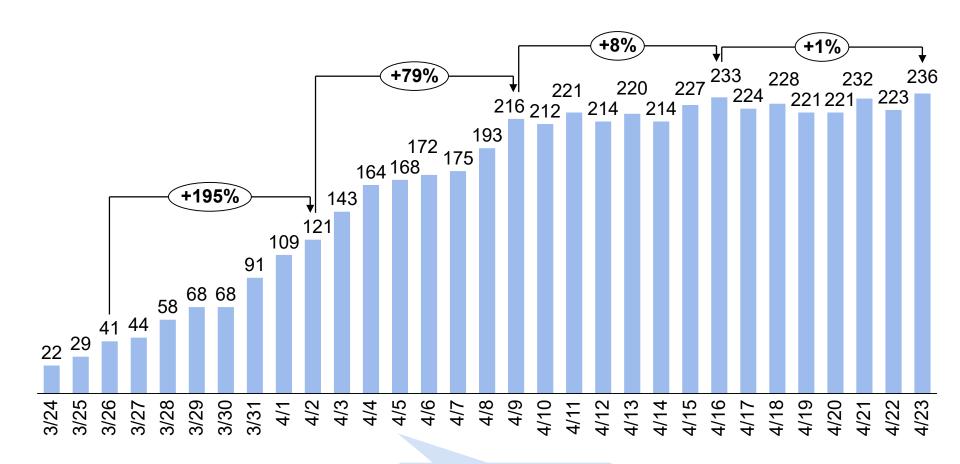
By Felice J. Freyer Globe Staff, Updated April 18, 2020, 2:40 p.m.



A nurse wore full personal protective gear while caring for an intubated COVID-19 patient at Boston Medical Center. ERIN CLARK/GLOBE STAFF

"For more than 150 years, the hospital at the edge of Boston's South End has taken pride in caring for the city's most vulnerable patients. But now as the coronavirus ravages the communities BMC serves, the city's safety net hospital by necessity has become essentially a COVID-19 hospital. The pandemic hit here first and hit here hardest."1

Our COVID positive census grew to 236 patients in 30 days in the first surge – BMC had the highest percent of Covid positive patients in Boston

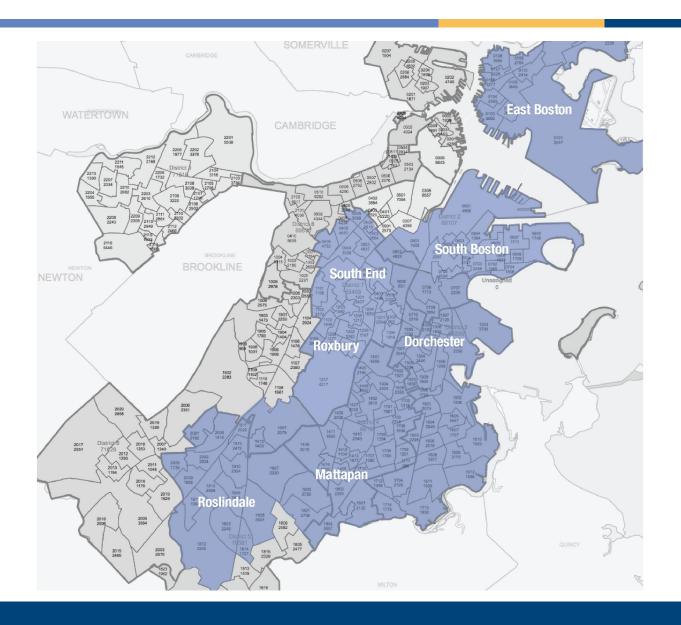


Impacted by 9 transfers

^{1.} Assumes 100% of pending results are positive.

^{2.} Includes patients admitted but who are in ED awaiting bed

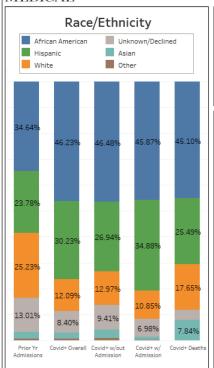
National Model Health System's Patient Catchment Area





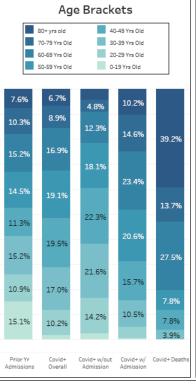
Boston Medical Center Health System COVID-19 Weekly Data Report 4-22-20

IMEDICAL Demographics Breakdown (Covid+ with Prior Year Averages)

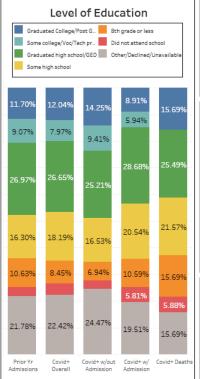


% Homeless in the Last Year						
Prior Yr Admissions	Homeless Housed	9.5%	90.5%			
Covid+ Overall	Homeless Housed	8.5%	91.5%			
Covid+ w/out Admission	Homeless Housed	4.9%	95.1%			
Covid+ w/ Admission	Homeless Housed	13.4%	86.6%			
Covid+ Deaths	Homeless Housed	2.0%	98.0%			

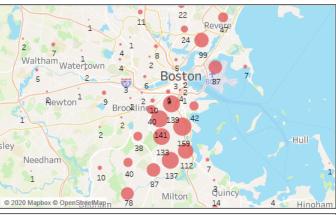
Cohort Sizes (Unique Patients)							
Cohort	# Pts	Avg Age	Deaths				
Prior Yr Admissions	25,782	45	832				
Covid+ Overall	1,869	51	51				
Covid+ w/out Admission	1,095	46	9				
Covid+ w/ Admission	774	58	42				
Covid+ Deaths	51	71	51				



Gender						
	F	M				
Prior Yr Admissions	54.9%	45.1%				
Covid+ Overall	52.0%	48.0%				
Covid+ w/out Admission	58.5%	41.5%				
Covid+ w/ Admission	42.6%	57.4%				
Covid+ Deaths	33.3%	66.7%				







Neighborhood -	% Increase vs. Prior Yr Admissions -100.0 260.0					
	Covid+ w/ A	dmission	Covid+ w/out Admission		Prior Yr Admissions	
Neighborhood	Count % Cohort		Count	% Cohort	Count	% Cohort
BOSTON (DORCHESTER)	174	22.48%	230	21.00%	3,619	14.04%
BOSTON (ROXBURY)	73	9.43%	68	6.21%	1,541	5.98%
BOSTON (SOUTH END)	71	9.17%	68	6.21%	1,690	6.55%
CHELSEA	62	8.01%	37	3.38%	813	3.15%
BOSTON (EAST BOSTON)	54	6.98%	33	3.01%	1,206	4.68%
BOSTON (DORCHESTER CENTER)	49	6.33%	88	8.04%	1,829	7.09%
BOSTON (MATTAPAN)	38	4.91%	49	4.47%	960	3.72%
BOSTON (HYDE PARK)	34	4.39%	44	4.02%	710	2.75%
BOSTON (SOUTH BOSTON)	24	3.10%	19	1.74%	753	2.92%

Comorbidities									
Cohort	Obesity	Hypertens	Diabetes	CADs	CKD	CHF	COPD/Ast	Cancer	
Prior Yr Admissions	60.2%	30.5%	17.3%	46.3%	16.7%	7.4%	5.0%	9.0%	
Covid+ Overall	69.9%	35.2%	22.1%	44.9%	14.6%	5.2%	3.6%	5.4%	
Covid+ w/out Admiss.	66.8%	26.0%	15.0%	37.4%	8.9%	2.1%	1.4%	3.1%	
Covid+ w/ Admission	74.4%	48.2%	32.2%	55.6%	22.7%	9.6%	6.7%	8.7%	
Covid+ Deaths	68.6%	72.6%	43.1%	74.5%	47.1%	39.2%	13.7%	13.7%	









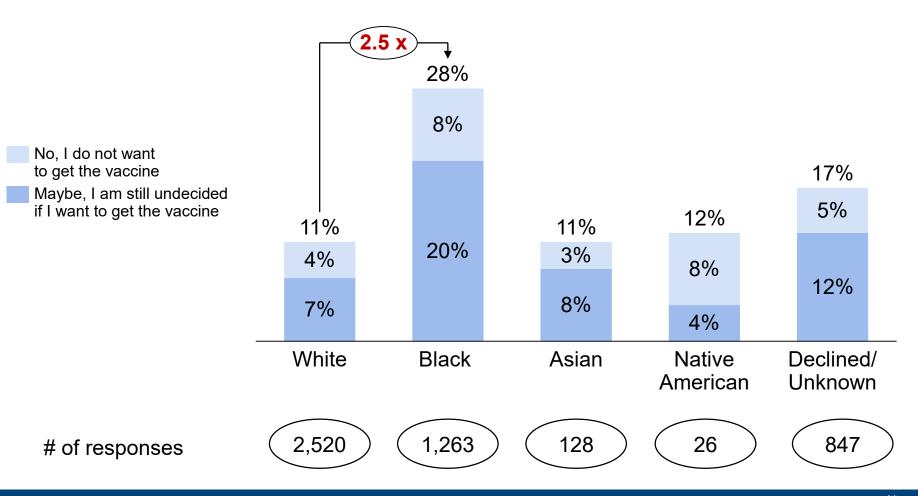
COVID-19 Response:

Inequity in plane site

- Hesitancy
- Access

Patient survey: vaccine hesitancy – Black patients are 2.5x more likely to be undecided or negative about the COVID-19 vaccine

Question 1: Will you get the COVID-19 vaccine when it is available to you?



In our employee data we saw how significant a challenge we faced in supporting vaccine acceptance in Black and Latino/a communities

NMHS employees by vaccination status, 1st dose

Includes employees, LIPs, Residents, per-diem and contingent workers, as of 1/13/21

				Total		
	Total			scheduled +	No	
Race	offered	Scheduled	Vaccinated	vaccinated	response	Refused
White	3,245	2%	71%	72%	19%	9%
Black or AA (Not Hispanic or						
Latino)	1,824	2%	34%	36%	48%	16%
Blank	1,501	1%	67%	69%	25%	6%
Asian (Not Hispanic or Latino)	691	2%	74%	76%	17%	7%
Hispanic or Latino	678	1%	52%	53%	35%	12%
2+ Races	159	2%	53%	55%	35%	11%
American Indian or Alaska Native	13	0%	77%	77%	8%	15%
Native Hawaiian or Other Pacific						
Islander	5	0%	40%	40%	60%	0%
Grand Total	8,116	1%	60%	62%	28%	10%

We are partnering with community leaders to ensure an equitable distribution of the COVID vaccine...

While state website crashed, a Mattapan Church opened to 'a huge line' on first day as a vaccination site

The Boston Blobe



Religious leaders work to build trust in COVID-19 vaccine in communities of color

Many communities of color are distrustful of government and health institutions.





Bishop John Borders runs Morning Star Baptist Church, located in a...

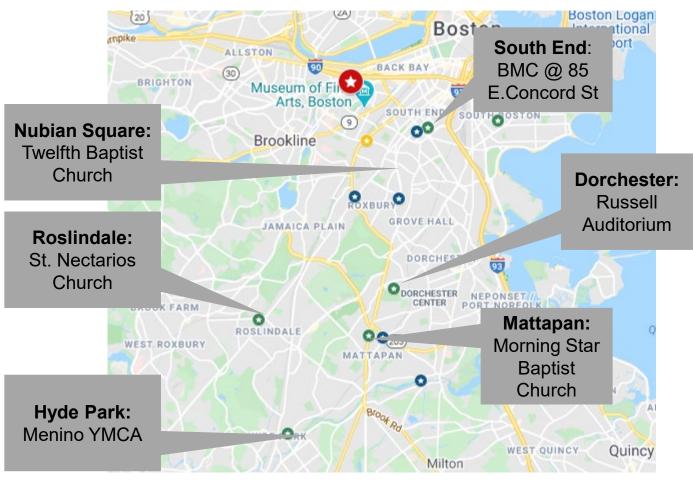
Read Mo

How BMCHS is working towards equitable COVID vaccine distribution

- Operating 6 sites around BMC to ensure a site < 2 miles from target population
- Partnering with leaders of Black and Hispanic /
 Latino communities (e.g., ministers, social activists,
 school leaders) to share vaccine information, learn
 about key concerns from the community, and connect
 those interested with appointments
- Proactive outreach to eligible patients (including ahead of pre-scheduled visits), health plan members, and other lists of community members generated by community partners
- Community scheduling / outreach including 'door to door' campaign and volunteers at high traffic areas (e.g., grocery stores)
- Sharing information from diverse clinicians and in multiple languages directly with the public (e.g., FAQs on BMC's website, physician testimonials on social media, "Zoom with a Doc")
- Media campaign in multiple languages and media (e.g., radio, television, posters, social media)



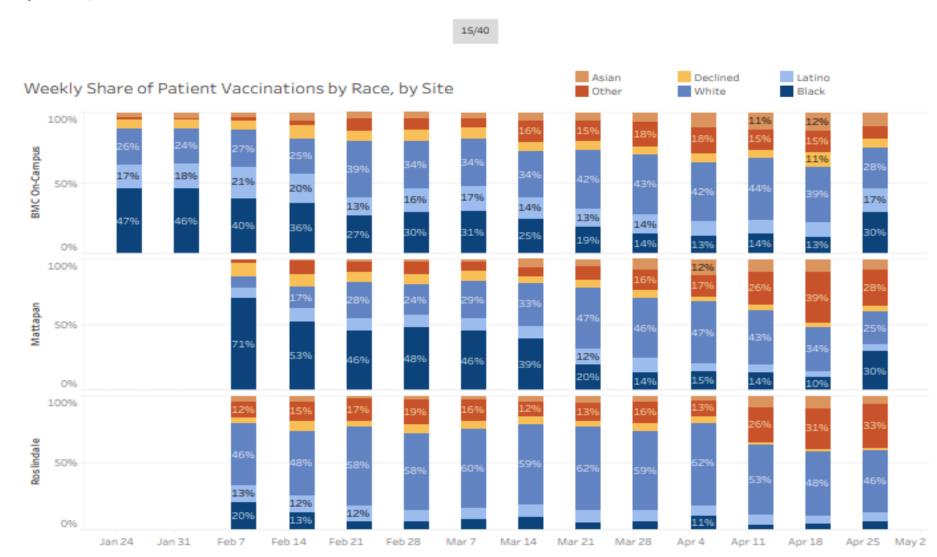
We evaluated neighborhood populations and existing health system capacity to identify "vaccine deserts" that we could fill in with our network



We established 6 New Community Vaccination Sites

Weekly Vaccinations By Race and Site

BMC Patient Vaccination Dashboard April 30, 2021

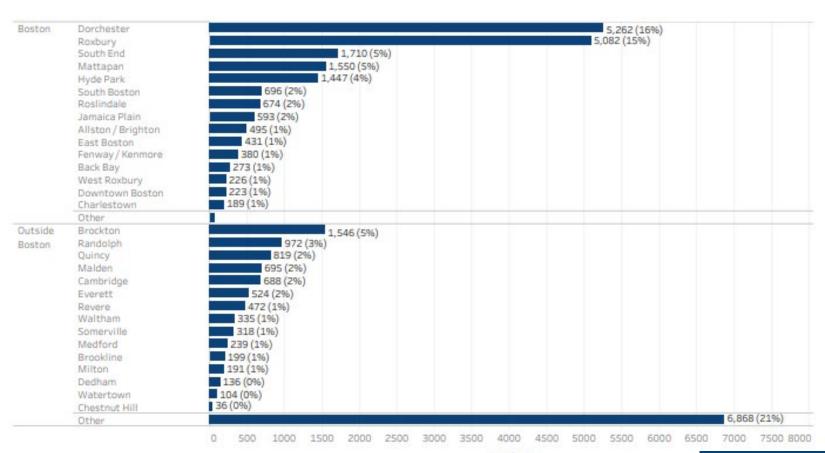


Non-vaccinated by neighborhood

BMC Patient Vaccination Dashboard April 30, 2021

38/40

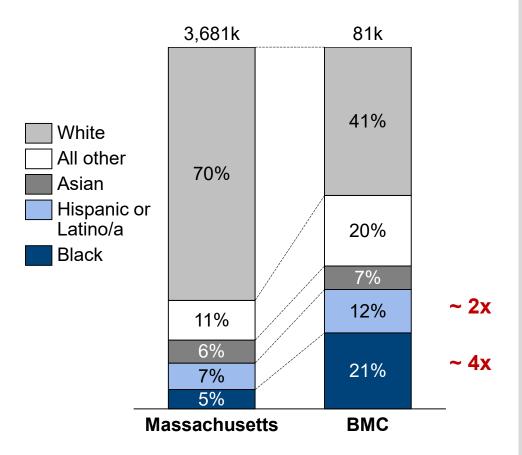
Non-Vaccinated BMC Patients >= 16 by Neighborhood



... and our efforts have shown that we can make progress towards equity when we focus on addressing racial inequities: Intentionality

Vaccinations by race / ethnicity¹

MA through 4/27, BMC through 4/27



Local leaders visited our community vaccination sites, including:



Governor Charlie Baker at Morning Star Baptist Church



Attorney General Maura Healy at Russell Auditorium



Marty Martinez at the Menino YMCA



We are engaging patients and the community through multiple channels to support vaccine adoption and access to appointments

Trauma, COVID-19 Vaccine Concerns, and the Way Forward

Communities who have suffered most from COVID-19 also stand to benefit most from vaccination, savs Anthony Fauci.



HEALTHCITY

Why We Should Prioritize People with Substance Use Disorder for COVID-19 Vaccination

Practical challenges and stigma must be overcome for such an effort to succeed, but success could yield a blueprint for future care



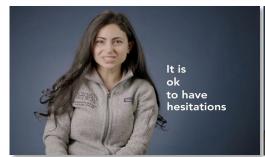
Fighting Vaccine Hesitancy in Groups Hardest Hit by COVID-19

Transparency and culturally appropriate communication are key to counteracting the hesitancy that could diminish the impact of a COVID-19 vaccine



f| y | in | x | + | By Jazmin Holdway December 11, 2020











Sabrina A. Assoumou, MD MPH



In the meantime, you can find answer COVID-19 vaccines - such as how the information for people with specific h https://bit.ly/2Kha4G7, which is being









than I thought." - Madge Hanson, one of our first

patients to get vaccinated against COVID-19!





The Boston Globe

BMC's Dr. Thea James is working to persuade communities of color to get the vaccine





BMC infectious disease doc on what's ahead for vaccine rollout in Mass.



Multilingual, geo-targeted digital campaign to further engage key audiences

Goals:

- Address hesitancy and provide educational resources
- Showcase resiliency of the community and our path forward together
- Build momentum and encourage vaccine uptake

Tactics:

- Campaign landing page
- Social media ads
- Testimonial and educational videos
- Radio, print and media ads on niche community stations/outlets
- Community toolkits and educational materials









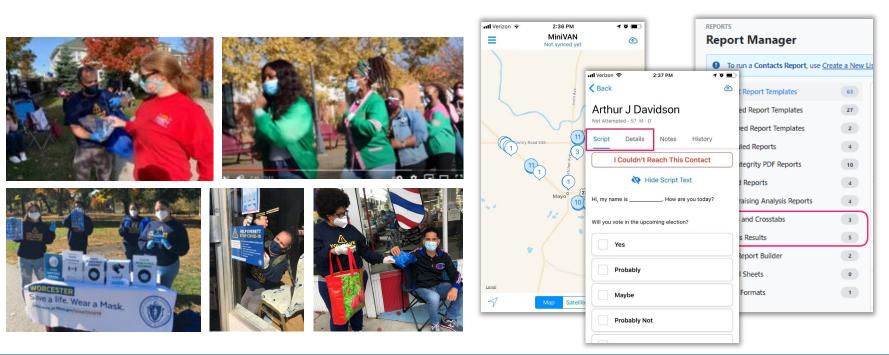




We are working to improve access to information and appointment registration through direct field work

Community Outreach

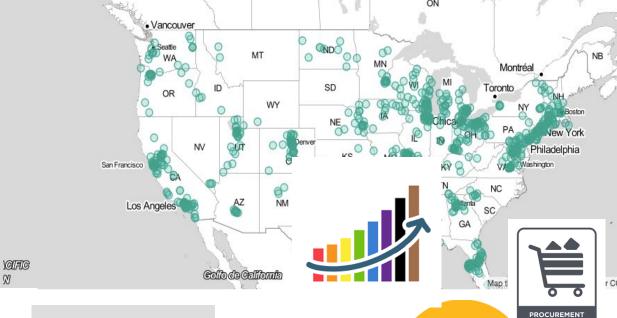
- Bilingual canvassers from target communities will utilize EveryAction & MiniVAN technology to go door-to-door
 - They will answer questions about the vaccine and sign people up for appointments/waitlists (socially distanced) and/or point individuals to town halls and additional educational materials
 - They will also distribute door hangers, bodega signs, etc. with local businesses and community members
- Champion groups (faith leaders, fraternities/sororities, elected officials, etc.) will engage our community for "weekends of action" and other events



The Healthcare Anchor Network

"Building more inclusive, sustainable, local economies..."

With 60 health systems (and counting) represented in the Network, we bring together anchor institutions from across the country that together employ more than 1.5 million people, purchase over \$50 billion annually, and have over \$100 billion in investment assets.













Determination of Need: Raise the Bar on What is Possible



Press Releases

Boston Medical Center to Invest \$6.5 Million in Affordable Housing to Improve Community Health and Patient Outcomes, Reduce Medical Costs

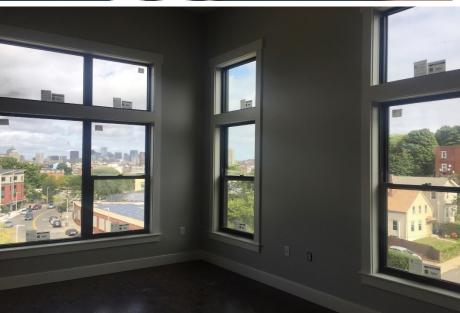
December 07, 2017

Investment: Bartlett Place





YOUR COMMUNITY GROCERY















Our Journey: Began with principles and intentionality

We are building on our decades of health equity programming with a new intentionality to address gaps in health outcomes by race explicitly



Invest in eliminating systemic barriers for minorities to economic mobility and access to other social determinants of health in partnership with our community



Advance Racial Health Equity



Equitable Care

Revise use of race in protocols

Adapt care to cultural / social context

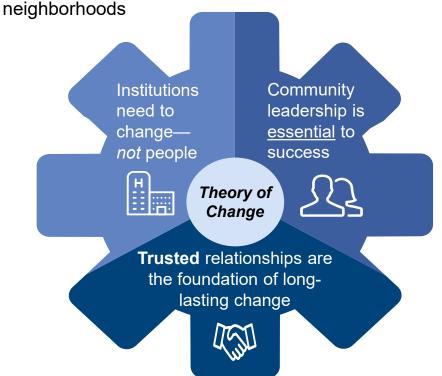
Eliminate impact of unconscious bias

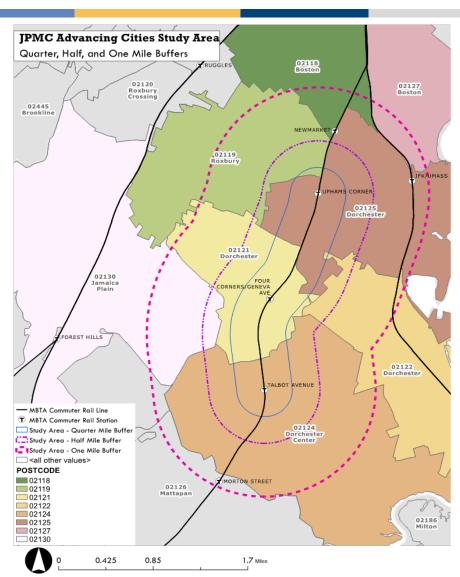
Create a trustworthy environment

and correct for historical bias

The BOS Collaborative is testing a *Systems Change* approach in a placebased way (JPMC \$5m Grant)

Beginning in the Bowdoin-Geneva, Codman Square, Upham's Corner, and Nubian Square neighborhoods of Boston and expanding to other adjacent neighborhoods, The BOS Collaborative is working to address systemic problems that drive differences in economic opportunity within segregated neighborhoods, while leveraging vibrant social connections within those neighborhoods





Good Food Markets: Rethinking Equity with Intentionality

- Original plan
- True Equity

