

Care for Chagas Disease: the Strong Hearts Project

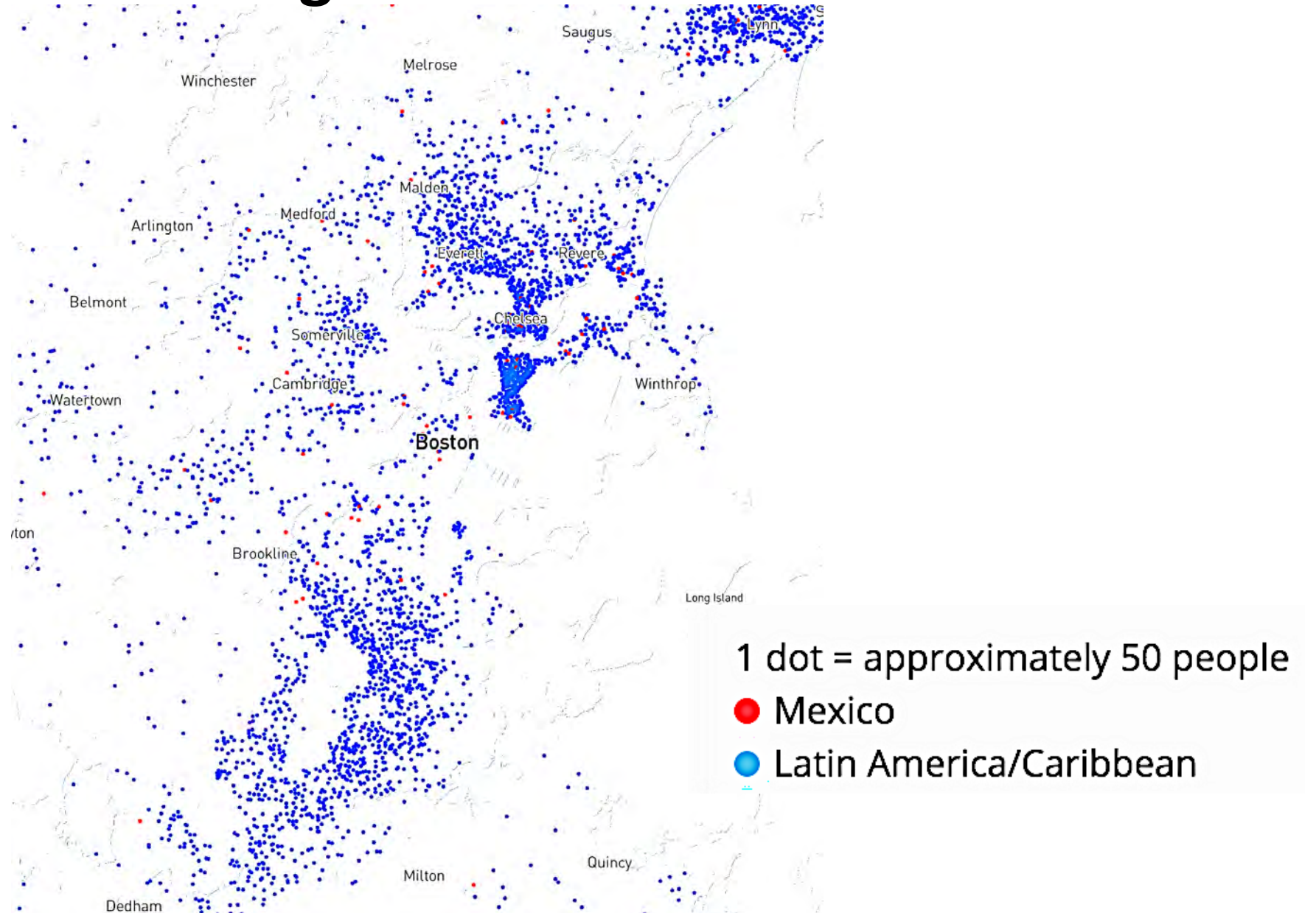


Julia Koehler, MD

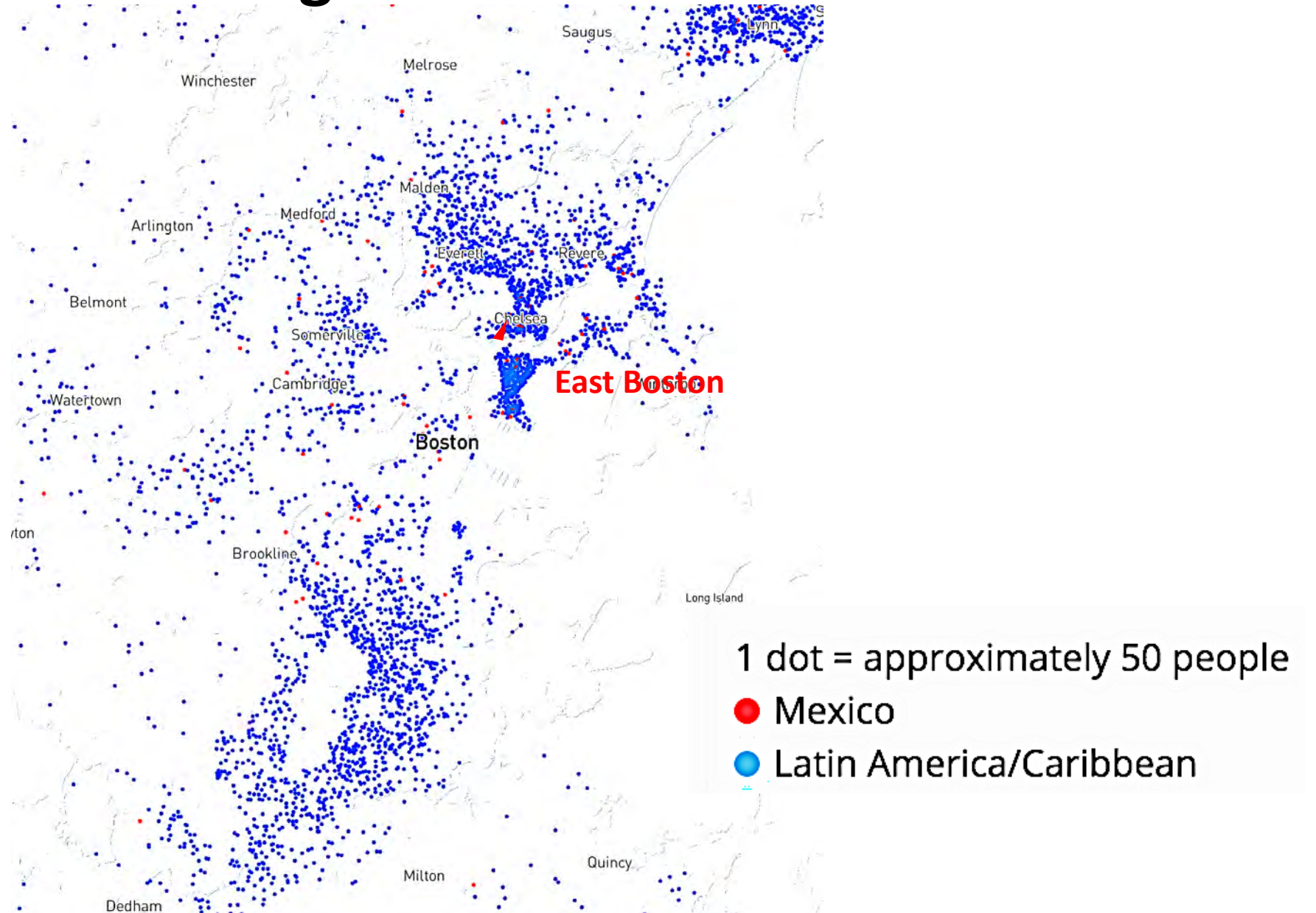
Boston Children's Hospital and Harvard Medical School

5/19/2021

Latino immigrants in the Boston area



Latino immigrants in the Boston area



East Boston Community- Santisimo Redentor



From
<https://www.facebook.com/mhreboston/photos/a.1293950453957084/2143741795644608/?type=3&theater>, accessed 10-23-2018

The Strong Hearts Project



Application to Boston Children's Hospital IRB, August 2016

Specific Aims

1. To **increase awareness** of Chagas disease **among healthcare providers** in Massachusetts serving communities at highest risk.
2. To **educate affected communities** on Chagas disease in order to motivate at-risk individuals to obtain screening and to pursue follow-up.
3. To **establish appropriate screening and treatment** for Chagas disease for high-risk populations in Massachusetts.
4. To **augment available information** about the epidemiology of Chagas disease in Massachusetts that may be used to direct policies on screening and treatment, and **estimate the success of efforts towards aims 1-3** over time.

The Initial EBNHC Strong Hearts Team: they made the path by walking.

al [Spanish]



Juan Huanuco, MD



Jill Davis, RN

The Current EBNHC Strong Hearts Team: making the road.



Juan Huanuco, MD

Jaime Gallegos Salazar, MD

Jim Gomes, MSW



Steps to begin diagnosing:

- 1. Repeated information sessions in all 4 clinical departments of East Boston Neighborhood Health Center (Jen Manne-Goehler and Julia Koehler).**
- 2. Arrange with on-site laboratory to split serum samples and hold aliquots until screening test returns (Juan Huanuco).**
- 3. Arrange with IT staff to include patients' country of origin in medical record (Juan Huanuco).**
- 4. Generate plan for the screening process and convince the health center Patient Care Committee over 2 meetings and eventually the health center Board (Juan Huanuco and Julia Koehler).**
- 5. Identify ID specialists who would commit to seeing referred Chagas patients in a timely manner (Elizabeth Barnett and Julia Koehler).**



Steps to continue diagnosing:

- 1. Community education in occupational health and ESL classes, community organizations, soup kitchen, churches (Julia Koehler).**
- 2. Follow all positive screening samples and fill out CDC form and order serum sent to CDC (Juan Huanuco, Jill Davis, Jaime Gallegos Salazar).**
- 3. Periodically pull results from health center electronic record system (Jill Davis) for analysis (Jen Manne-Goehler and Jill Davis).**
- 4. Ensure that a care navigator can support patients' ability to attend clinic visits and support them with other needs (Julia Koehler).**
- 5. Care navigation (Katie Collins and Jim Gomes).**



Diagnoses through Strong Hearts

3/24/2017 - 4/14/2021

8,879 screening tests sent

82 patients diagnosed



“Nuts and Bolts” of a diagnosing program in a medical facility:

- 1. Educate clinicians to screen.**
- 2. Provide information of country of origin in medical record.**
- 3. Ensure confirmatory testing: can split the screening sample and save an aliquot, or have patients return. Latter option is easier with Quest using the higher-specificity Wiener ELISA.**
- 4. Establish who monitors results coming from CDC and who refers to specialty care.**
- 5. Care navigation. Ethics of diagnosing if care is not ensured?**



Formula for success: $(m \times r)/b$

Clinician Motivation x Resources/Barriers

Motivation:

- 1. altruism, wish to save lives, opposition to racism and to devaluation of specific human beings.**
- 2. personal advancement e.g. publications, grants, career advancement, name recognition.**

Resources:

- 1. support from institutional leadership.**
- 2. intra-institutional guidelines, until general guidelines are adopted.**
- 3. funding for staff.**



Strong Hearts variables in $(m \times r)/b$:

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Resources:

1. support from institutional leadership.
2. intra-institutional guidelines, until general guidelines are adopted.
- 3. funding for staff: intermittent funding for care navigator.**



Food for thought and for investigation:

Clinician Motivation x Resources/Barriers

1. altruism: literature about innate preferences (caring about others) versus external incentives (wishing to be seen as caring) that can synergize to create an effective community consensus. Example: mask wearing.

2. personal advancement: may be effective.

Literature about contrary effect of financial incentives.

Clinician Motivation x Resources/Barriers

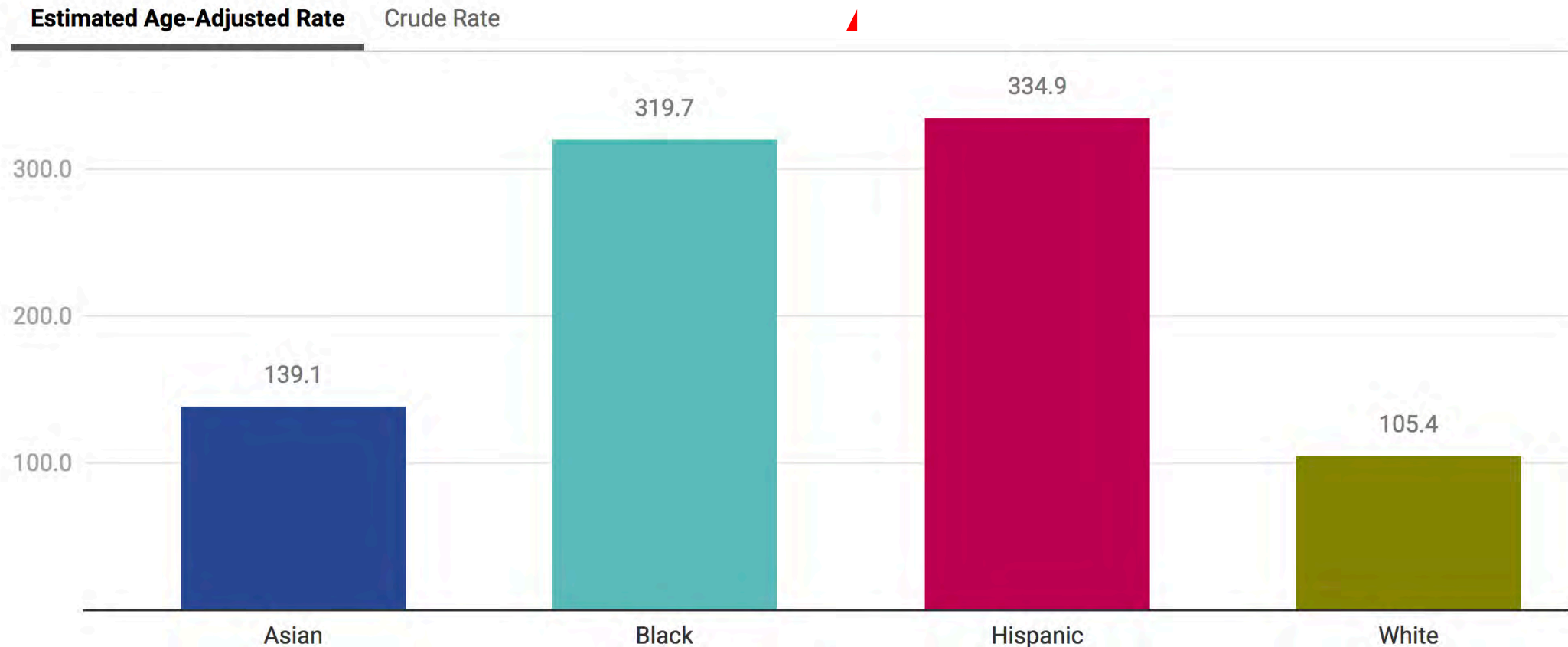


Barriers:

1. burdensome diagnostic procedure.
2. overburdened clinical staff.
3. medical system disinterest e.g.:
 - failing referral systems.
 - no consideration of language barriers.
 - refusal to initiate care without insurance.
4. societal e.g.:
 - patients' inability to attend medical appointments during working hours.
 - lack of insurance.
 - fear of immigration enforcement.
 - discomfort and fear of mistreatment in medical settings.

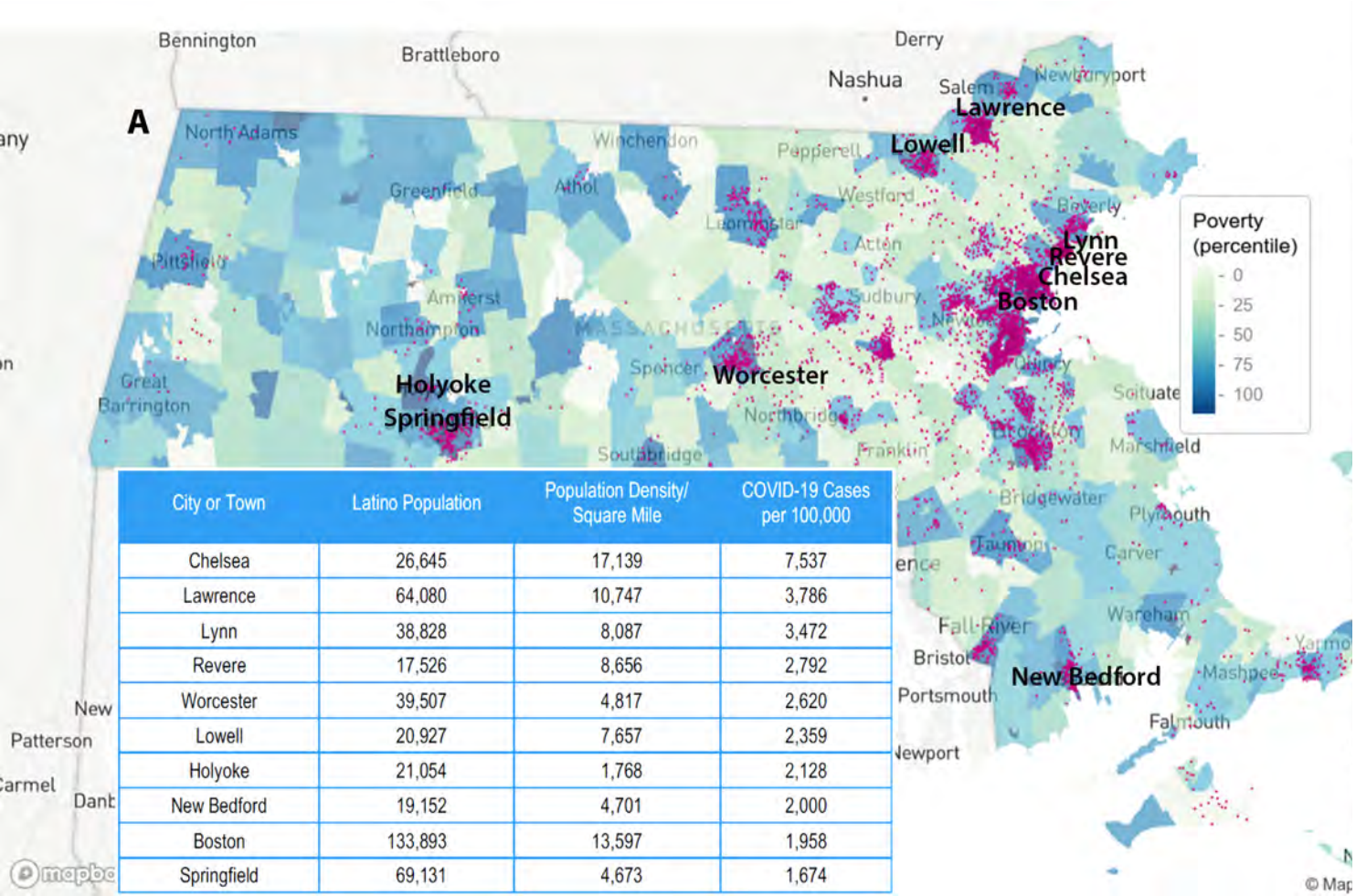
Age-adjusted COVID death rates are threefold higher for Latino and Black residents than for white residents of Massachusetts.

Crude versus Age-Adjusted Mortality Rates by Race and Ethnicity per 100,000 people in Massachusetts as of August 11th, 2020



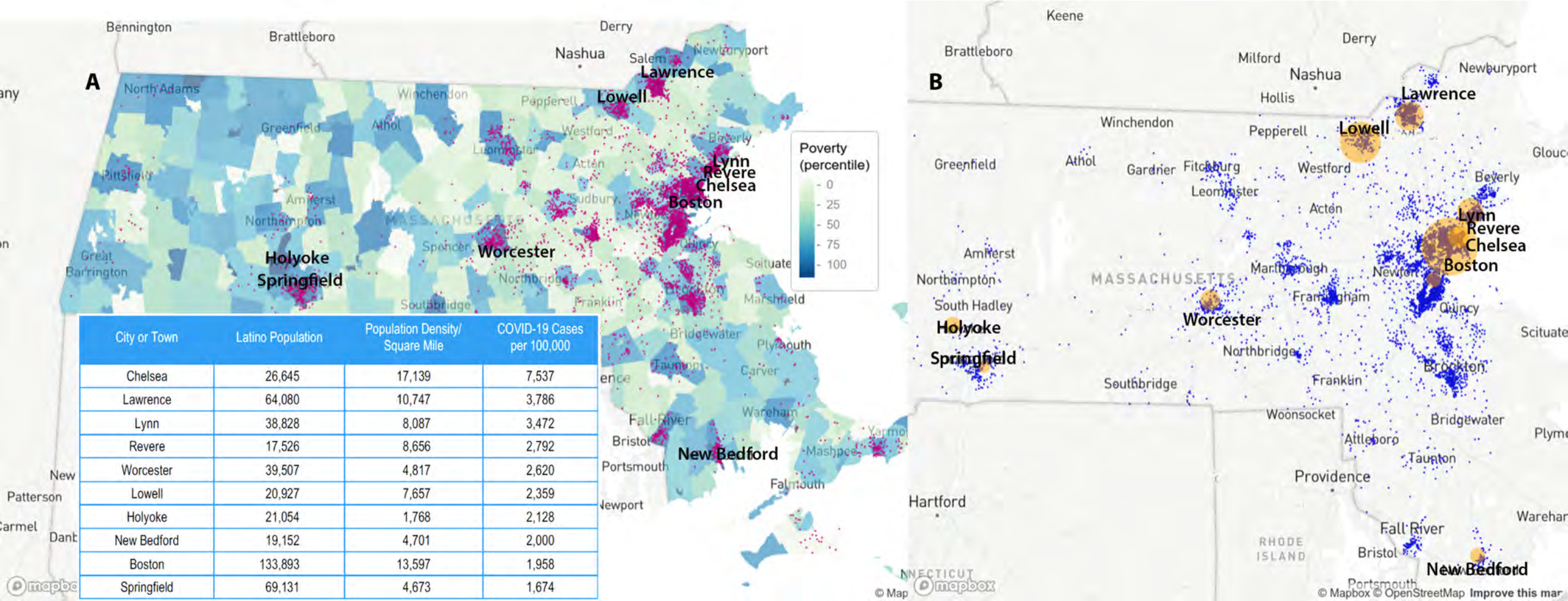
https://www.bostonindicators.org/reports/report-website-pages/covid_indicators-x2/2020/december/persisting-covid-disparities. Data from December 2020.

COVID-19 illness and death among those who are paid the least and discriminated the most.



Latino immigrant populations, A. poverty and B. COVID-19 hotspots overlap. Each pink dot represents 50 Latino immigrants. Data from August 2020.

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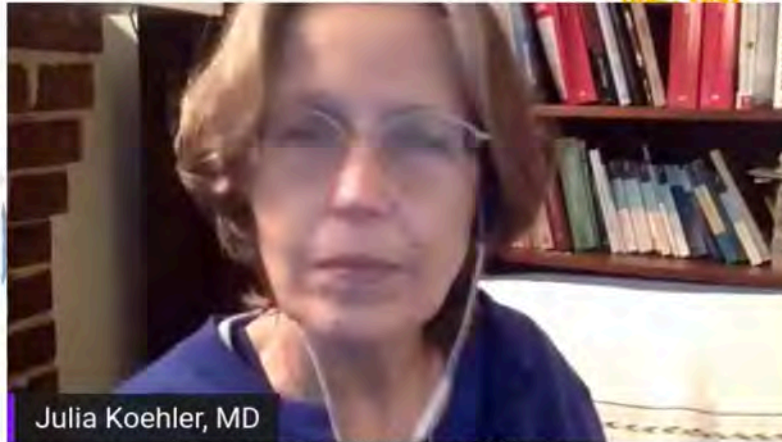
Latino immigrant populations, A. poverty and B. COVID-19 hotspots overlap. Each dot (A, pink; B, blue) represents 50 Latino immigrants. B. Size of yellow circles represents COVID-19 cases per 100,000 residents of the towns with highest number of COVID-19 cases per population. Data from August 2020.



COVID Vaccine Information



Fr. Americo Santos



Julia Koehler, MD

Domingo 7 de Febrero 2021, 9pm.

facebook



Most Holy Redeemer Church - Parroquia Santisimo Redentor



was live.

February 7 · 🌐

Vacuna contra el Covid-19

Te invitamos a este segmento donde hablaremos con el padre Americo sobre la vacuna contra el Covid19...

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119 Comments 1.7K Views



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en breve, responderemos a tus preguntas!

Like · Reply · See Translation · 14w



Most Holy Redeemer Church - Parroquia Santisimo Redentor · 0:00





Concrete support for Chagas disease patients (Jim Gomes):

- Grocery store gift cards for \$75, \$50 and \$50 sent sequentially to the patients.
- Help with food aid sign-up and with applying for rental assistance.

- 40 COVID vaccination appointments made to date for Chagas disease patients.



Information: 100 posters in East Boston & Chelsea (Jim Gomes, Vanessa Pineda). Youtube videos (Vanessa P., Jim G., others) Doorknocking in Chelsea x9 weeks & dozens of information sessions with immigrant organizations over Facebook live with ~30,000 total views (Julia K.).

Coordinator/Navigators: the heart of Strong Hearts.



**Katie
Collins**

From <https://www.facebook.com/photo.php?>
Accessed 10-23-2018



Jim Gomes

**Thanks to our funders: Mundo Sano,
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